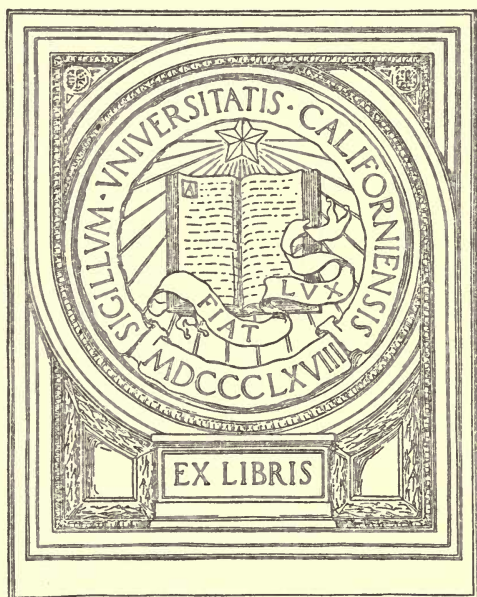


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Contents.

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Monograph of the species of Sphaerium of North
and South America.
Catalogue of the recent species of the family
Corbiculadæ.
Check-list of the Cyclades of N. A.
Notes on Corbiculadæ in the Jardin des Plantes.
Catalogue of the Collection of Corbiculadæ of T.
Prime, now in Cambridge

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SYNONYMY

OF THE

SPECIES OF CYPRINELLA.

A REVIEW OF THE SPECIES DESCRIBED TO THE END OF THE
YEAR 1857.

BY CHARLES SMITH.

ALBANY: J. B. KNEELAND, PRINTED BY J. B. KNEELAND, 1858.

CYPRINELLA, Bosc.

Cyprina, Bosc. Cat. Fish. Vol. 1834. *Cyprina*, Bosc.
Cat. Fish. 1834. *Cyprina*, Bosc. Cat. Fish. 1834.
Cyprina, Bosc. Cat. Fish. 1834. *Cyprina*, Bosc. Cat.
Fish. 1834. *Cyprina*, Bosc. Cat. Fish. 1834.

Cyprinella, Adams.

Cyprinella, Adams and Reeve. Voy. Challenger, 1858.
Cat. Fish. 1858. *Cyprinella*, Adams and Reeve.

Cyprinella, Adams and Reeve.

Cyprinella, Adams and Reeve. Voy. Challenger, 1858.
Cat. Fish. 1858. *Cyprinella*, Adams and Reeve.

Cyprinella, Adams and Reeve.

Cyprinella, Adams and Reeve. Voy. Challenger, 1858.
Cat. Fish. 1858. *Cyprinella*, Adams and Reeve.

Cyprinella, Adams and Reeve.

Cyprinella, Adams and Reeve. Voy. Challenger, 1858.
Cat. Fish. 1858. *Cyprinella*, Adams and Reeve.



SYNONYMY
OF THE
SPECIES OF CYRENELLA,

A GENUS OF MOLLUSCA BELONGING TO THE FAMILY OF
THE LUCINIDÆ.

By TEMPLE PRIME.

[From Vol. VII. of *Proceedings of Boston Society of Natural History*, Sept. 5, 1860.]

CYRENELLA, Deshayes.

VENUS, Desh. Coq. Foss. Par. 1824. CYRENELLA, Desh.
Soc. Philom. 1833. CYRENOIDA, Joannis. Mag. Zoöl. 1835.
CYRENELLA, Desh. Loc. sup. cit. 1835. CYCLAS. Fer. Cat.
20, 1837. CYRENOIDES, Morelet. Test. Cub. 1851.

1. CYRENELLA ALATA, Adams.

Cyrenoida alata, Adams and Reeve. Voy. Samarang, 80, pl.
xxiv. f. 12, 1850. Hab. Corean Archipelago.

2. CYRENELLA AMERICANA, Morelet.

Cyrenoides Americanus, Morelet. Test. Nov. Cub. pt. 2d, 26,
1851. Hab. Central America.

3. CYRENELLA COREËNSIS, Adams.

Cyrenoida Coreënsis, Adams and Reeve. Voy. Samarang, 80,
pl. xxiv. f. 14, 1850. Hab. Corean Archipelago.

4. CYRENELLA CUMINGI, Sowerby.

Cyrenoida Cumingi, Sowb. Hanl. Wood's suppl. Cat. pl. xv.
f. 5, 1854. Hab. Philippines.

5. CYRENELLA DUPONTIA, Joannis. Desh. Mag. Zoöl., class. v. 70, 1835.

Cyrenoida Dupontia, Joannis. Loc. sup. cit. class. v. pl. 64, f. 1-3, 1835.

Cyclas Dupontia, Ferussac. Cat. 20, 1837. Hab. Senegal.

6. CYRENELLA LENTICULARIS, Desh. Proc. Zoöl. Soc. xxii. 341, 1854.

Cyrenoida lenticularis, Adams. Rec. Gen. ii. 452, 1858. Hab.?

7. CYRENELLA LUCINOIDES, Desh. Trait. elem. Conch. ii. 818, pl. xiv. bis f. 10-12, 1853.

Venus lucinoides, Desh. Desh. Coq. Foss. Par. 1, 146, pl. xxiii. f. 12, 13, 1824. Hab. France, (fossil.)

8. CYRENELLA MORETONENSIS, Desh. Proc. Zoöl. Soc. xxii. 341, 1854. Hab. Moreton Bay, Australia.

9. CYRENELLA OBLONGA, Sowerby. Proc. Zoöl. Soc. xxii. 341, 1854.

Cyrenoida oblonga, Sowb. Hanl. Wood. suppl. Cat. pl. xv. f. 6, 1854. Hab. Philippines.

10. CYRENELLA PHILIPPINARUM, Sowb. Proc. Zoöl. Soc. xxii. 340, 1854. Hab. Philippines.

11. CYRENELLA PISIFORMIS, Desh. Proc. Zoöl. Soc. xxii. 341, 1854. Hab. Philippines.

12. CYRENELLA SENEGALENSIS, Desh. Proc. Zoöl. Soc. xxii. 341, 1854.

Cyrenoida Senegalensis, Desh. Adams, Rec. Gen. ii. 452, 1858. Hab. Senegal.

13. CYRENELLA SPHÆRICULA, Desh. Proc. Zoöl. Soc. xxii. 340, 1854. Hab. Moreton Bay, Australia.

14. CYRENELLA TUMIDA ?

Mysia tumida, Nutt.*Cyrenoida tumida*. Jay's Cat. iv. ed. 33, 1850. Hab. ?SYNONYMY OF THE KNOWN SPECIES OF RANGIA, A GENUS
OF THE FAMILY MACTRACEA.

BY TEMPLE PRIME.

RANGIA, Desmoulins.

CLATHRODON, Gray, MSS. RANGIA, Desmoul. Soc. Linn. Bord. v. 1831. Conrad, Marine Conch. 1831. CLATHRODON, Gray. Conrad, Amer. Il. xxiii. 1833. MACTRA. Conrad, Amer. Il. xxiii. 1833. GNATHODON. Rang. Ann. Mus. n. ser. iii. 1834. Gray, London Mag. N. Hist. n. ser. i. 1837.

1. RANGIA CYRENOIDES, Desm. Act. Soc. Linn. Bord. v. 48, pl. 1, 1831. Conrad, Marine Conch. 57, pl. 13, 1831. Adams, Rec. Gen. ii. 380, 1858. Conrad, Proc. Ac. N. S. Phil. 232, 1860.

Clathrodon cuneata, Gray. Conrad, Amer. Il. xxiii. 340, 1833.

Gnathodon cuneatus, Gray. Lond. Mag. N. Hist. n. ser. i. 77, f. 34, 1837. Hab. N. America.

2. RANGIA CLATHRODONTA, Conrad. Proc. Ac. N. S. Phil. 232, 1860.

Mactra clathrodonta, Conrad. Amer. Il. xxiii. 340, 1833.

Gnathodon Grayi, Conrad. Foss. Test. form. 23, pl. 13, f. 1. Hab. N. America (fossil.)

3. RANGIA FLEXUOSA, Conrad. Proc. Ac. N. S. Phil. 232, 1860.

Gnathodon flexuosa, Conrad. Amer. Il. xxxviii. 92, 1840. Hab. N. America.

Rangia Grayi, Conrad. Foss. Test. form. 23, pl. 13, f. 1, is *Rangia clathrodonta*, Conrad.

4. *RANGIA LECONTEI*, Conrad. Proc. Ac. N. S. Phil. 232, 1860.
Gnathodon Lecontei, Conrad. Il. Ac. N. S. Phil. 1853.
 Hab. N. America.

5. *RANGIA MENDICA*, Gould. Conrad, Proc. Ac. N. S. Phil.
 232, 1860.

Macra mendica, Gould. Proc. Bost. Soc. N. H. iv. 88, 1851.

Gnathodon trigonum, Petit. Il. Conch. iv. 84, 1853.

Gnathodon mendica, Gould. Proc. Zoöl. xxiv. 200, 1856.

Rangia trigona, Petit. Adams, Rec. Gen. ii. 380, 1858. Hab.
 N. America.

6. *RANGIA MINOR*, Conrad. Proc. Ac. N. S. Phil. 232, 1860.

Gnathodon minor, Conrad. Foss. Test. form. 69, pl. 39, f. 6.
 Hab. N. America.

7. *RANGIA PARVA*, Petit. Adams, Rec. Gen. ii. 380, 1858.
 Conrad, Proc. Ac. N. S. Phil. 232, 1860.

Gnathodon parvum, Petit. Il. Conch. iv. 358, pl. 13, f. 9, 10,
 1853. Hab. New Holland.

8. *RANGIA ROSTRATA*, Petit. Adams, Rec. Gen. ii. 380, 1858.

Gnathodon rostratum, Petit. Il. Conch. iv. 84, 1853.

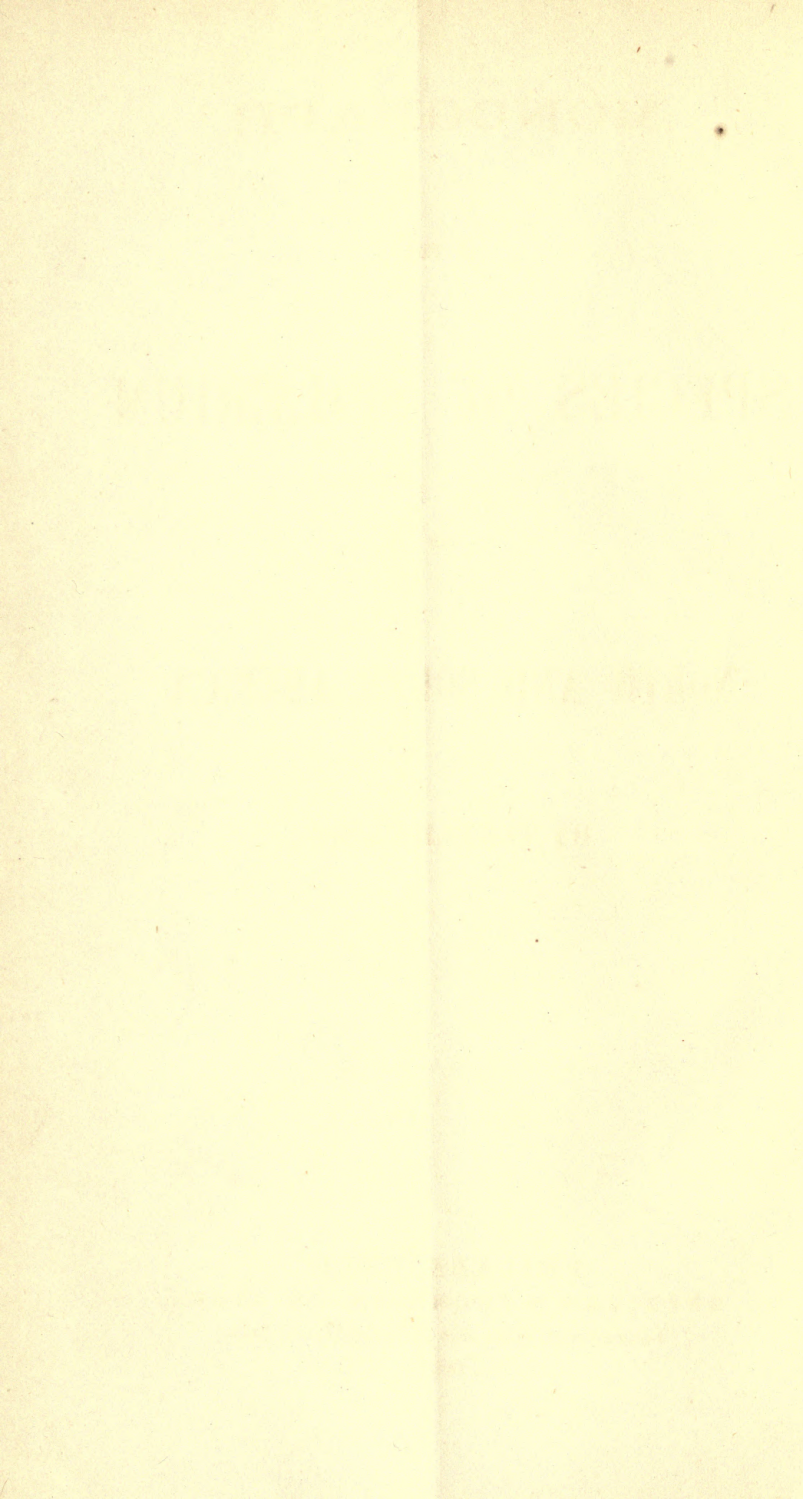
Rangia flexuosa, Conrad. Proc. Ac. N. S. Phil. 232, 1860.
 Hab. N. America.

Rangia trigona, Petit. Adams, Rec. Gen. ii. 380, 1858, is *Ran-*
gia mendica, Gould.

While preparing this paper, there appeared in the June number of the Proceedings of the Academy of Natural Sciences of Philadelphia Mr. Conrad's Synopsis of the genus *Rangia*. It will be seen, however, that the views here taken are not always the same as those of Mr. Conrad.

Iphaerium of N. & S. G.
John Ritchie

2



MONOGRAPH

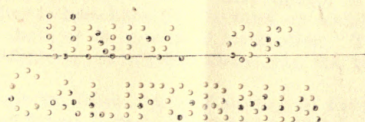
OF THE

SPECIES OF SPHÆRIUM

OF

NORTH AND SOUTH AMERICA.

BY TEMPLE PRIME.



PHILADELPHIA:

MERRIHEW & THOMPSON, PRINTERS,

Lodge street, north side of Pennsylvania Bank.

1862.

MONOGRAPH

OF THE

SPECIES OF SPHERIUM

OR

NORTH AND SOUTH AMERICA.

BY TEMPLE PRIME.

OF THE
SOCIETY OF

PHILADELPHIA:

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Lodge street, north side of Pennsylvania Bank.

1863

SPHÆRIUM OF NORTH AND SOUTH AMERICA.

The genus *Sphærium* was characterized under its present name by Scopoli, in 1777; since that time, however, it has received various denominations, and the one under which it has been most generally known, that of *Cyclas*, was applied to it in 1792 by Bruguière. Mr. Gray revived the term of *Sphærium* in 1847, and his example has been followed by the conchologists of the continent of Europe. I was the first in this country to discard the name of *Cyclas* for that of *Sphærium*.

The species composing this genus are small bivalves inhabiting rivers, lakes, streams, and still waters; they are plentifully distributed all over the globe, but as far as present experience goes, seem to be more abundant on the northern portion of this hemisphere than elsewhere.

The shell is transversely oval, nearly equilateral, thin, fragile, sometimes translucent, with beaks more or less raised; its entire surface is transversely striated and covered with a light epidermis varying in color; the margins are rounded, obtuse or angular. The interior of the valves is smooth and varies in color; the muscular impressions are not very distinct; the posterior one is slightly the largest; the pallial impression is parallel with the basal margin; it is narrow and always simple. The hinge margin is very variable; it is usually composed of two small teeth in each valve; at times, however, they are single in one and double in the other, or else single in both valves; these teeth are occasionally rudimentary, or even nearly obsolete. The lateral teeth placed on each side of the cardinal teeth are double in the right valve and single in the left one; the anterior lateral tooth is usually the shorter. The ligament is external; it is short, not very conspicuous, and is always found on the longer portion of the shell.

The animal of *Sphærium* has a broad foot, capable of considerable extension; it uses it either to bore holes in the mud, in which it sinks the posterior portion of the shell, or as means of locomotion. The syphonal tube is double and very retractile; it is often white like the foot but at times it is colored.

The habits of these molluscs are very similar to those of *Pisidium*, with which they are often found living. The species of *Sphærium* are less abundant in individuals than those of *Pisidium*; they are also less generally distributed, and are more confined to certain localities than the latter.

Fam. *CYCLADES* Fer.

SPHÆRIUM Scopoli.

Pectunculus, Lister, 1685. *Musculus*, Gault. 1742. *Tellina*, Linn., 1758. *Sphærium*, Scop., 1777. *Cardium*, Da Costa, 1778. *Cyclas*, Brug., 1782. *Nux*, Humphr., 1797. *Musculium*, Link. 1807. *Cornea*, Pism, Megerle. 1811. *Corneocyclas*, Fer., 1818. *Amesoda*, Rafin., 1820. *Pisidium*, Verany, 1846. *Cycladites*, Krug, 1848.

Generic characters. Animal oval, lobes of the mantle simple, united posteriorly, and terminating in two short syphons, joined at their base, without tentacles; mouth oval-shaped, small; tentacles of the mouth short and narrow; gills rather broad, nearly equal, united behind the foot; foot narrow, elongated.

Shell oval, nearly equilateral; beaks somewhat inflated and prominent; hinge margin narrow, with two primary teeth in each valve; lateral teeth elongated; pallial impression simple; ligament external, narrow, situated on the longer portion of the shell.

*Description of species.**

a.—Species with rounded but not protuberant beaks.

1. *Sph. sulcatum*, Lam.

Cyclas sulcata, Lam., An. s. vert. v. 560, 1818.

C. Saratogea, Lam., loc. sub. cit. v. 560, 1818.

C. similis, Say, Nich. Encycl. Amer. edit. ix. pl. 1, fig. 9, 1818.

C. lasmampsis, Rafin., Il. scie. Phys. ix. 319, pl. 82, f. 19, 20, 1820.

C. solida, DeKay, Rept. 220, pl. xxv. f. 265, 1842.

C. gigantea, Prime, Bost. Proc. iv. 157, 1851.

C. ponderosa, Prime, loc. sub. cit. iv. 157, 1851.

C. striatina, Lam., Fer. in Mag. Zool., 1835.

C. rhomboidea, Say, C. B. Adams, Vermont cat. 18, 1842.

Animal white, tubes a light orange color.

Shell transversely oval, nearly equilateral, light in texture for its size; posterior margin somewhat more pointed; anterior rounded, base slightly curved; valves convex; beaks full, raised above the outline of the shell; posterior portion a little longer; sulcations coarse, regular; epidermis dark chestnut brown; interior light blue; hinge margin narrow, nearly a straight line; cardinal teeth small, indistinct, situated somewhat towards the anterior side, double in both valves, and so placed as to assume the shape of the letter V reversed; lateral teeth on a line with the primary teeth, large, strong and prominent.

The young is more equilateral than the adult; more compressed; it presents the shape of a quadrilateral, it is of a light lemon color, the striations are as heavy as those of the mature shell.

Long. 11-16; lat. 71-61; diam. 5-16 inches.

Hab. North America, in the New England States, and in the States of New York, New Jersey, Pennsylvania, Ohio, Michigan, Wisconsin and Alabama.

(Cabinet Acad. of Nat. Sci. of Phila., Garden of Plants in Paris, Mus. Delessert, Jay, Prime and others.)

This, our most common and widely distributed species, living as it does in so many different sections of the country, presents at times great variations in size, color and general appearance. It can, however, be easily recognized by its very elongated and equilateral form, and by the beaks which are uniformly full and convex; they are often eroded. The young is often of a uniform light lemon color, which, as the shell matures, becomes gradually darker from the beaks downwards until the new shade covers the whole surface of the shell; in certain intermediate stages of growth, the shell is marked with a zone of yellow on the inferior margin; the color of the adult varies from a greenish brown to a dark chestnut. The young shell has at times, owing to the variations which exist between it and the adult, been taken for a different species; by some it has been taken for the *Sph. rhomboideum*.

* I am preparing for publication, as a complement to this Monograph, an Atlas with colored figures of the different species described.

The hinge margin is generally straight. I have specimens, however, from Alabama, Pennsylvania and Rhode Island, in which it is slightly curved. One of the distinctive characters of this species is that the lateral teeth are never placed at an angle with the cardinal teeth; they are generally on a straight line with them.

The finest specimens I have seen of the *Sph. sulcatum* were sent to me by Mr. Ingalls, who had collected them in Washington Co., N. Y.; they were remarkably convex, and measured as much in length as 13-16ths of an inch; the beaks were very full, and much raised above the margin of the shell.

This species was first described in 1818, by Lamarck, under the names of *Cyclas sulcata* and *Cyclas Saratogea*. Say, in 1819, ignorant that this shell was known to conchologists, described it as the *Cyclas similis*, under which name, until very recently, it has been most generally known. Say also figured this species, but his figure, I regret to say, is not correct, and would be more apt to give one the idea of a *Pisidium* than of a *Sphærium*. The description by Say of the *Cyclas similis* applies perfectly to the shell under consideration, of which Dr. Gould has given a very good figure in his Report on the Invertebrata of Massachusetts.

As related elsewhere,* I had an opportunity, some years since, while in Paris, to see Lamarck's original specimens of the *Cyclas sulcata* and *Saratogea*, at the Garden of Plants, and at the Delessert Museum; and to convince myself by examination that they both belonged to one species, and were identical with Say's *Cyclas similis*.

2. *Sph. aureum*, Prime.

Cyclas aurea, Prime, Boston Proc. iv. 159, 1851.

Animal, not observed.

Shell transversely oval, slightly elongated, nearly equilateral, heavy, convex; beaks full, raised above the outline of the shell; anterior margin broad and rounded; posterior narrower and somewhat angular; inferior slightly curved; hinge margin somewhat broad, curved; cardinal teeth diminutive, double, so placed together as to represent the form of the letter V reversed, and rather wide-spread; lateral teeth situated each one at an angle with the cardinal teeth, strong and large; sulcations deep, not very regular; epidermis varying from a greenish yellow to a bright gold color, slightly lustrous; interior of the valves bluish white.

Long. 9-16; lat. 7-16; diam. 6-16 inches.

Hab. North America, from Lake Superior?
(Cabinet. Agassiz and Prime.)

This is one of our most attractive species, but also one of the rarest. It is supposed to have been brought from Lake Superior by the expedition which visited that region under Professor Agassiz. In general outline it offers some similarities with the *Sph. sulcatum*; it is, however, a much more ponderous shell; it is less elongated, more convex, its sulcations are not so regular, its color is different, and lastly, its hinge margin is much more curved.

Compared to the *Sph. solidulum*, it is more convex, more elongated, its posterior margin is broader, the hinge margin is not so much curved, the beaks are fuller, and the sulcations are not quite so heavy; the color is also different.

3. *Sph. solidulum*, Prime.

Cyclas solidula, Prime, Bost. Proc. iv. 158, 1851.

C. distorta, Prime, loc. sub. cit. iv. 158, 1851.

Animal, not observed.

Shell transversely inequilateral, elongated, slightly convex; beaks full, not very prominent; anterior margin rounded; posterior drawn out to an angle; base slightly curved; epidermis variable, dark chestnut or brownish yellow, with sometimes a yellow zone on the basal margin; sulcations coarse, irregular; interior dark blue; hinge margin considerably curved; cardinal teeth double, in the shape of the letter V reversed; lateral teeth large; the anterior placed at an angle with the margin; the posterior more on a continuation of the curve.

Long. 9-16; lat. 7-16; diam. 5-16 inches.

Hab. North America, in the States of New York, New Jersey, Ohio, Maryland, Virginia and Indiana.

(Cabinets Academy of Nat. Sci. of Phila., Jay et Prime.)

This species which is not uncommon was probably confounded by our early conchologists with the *Sph. sulcatum*, it differs from that shell, however, in being less elongated, more inequilateral, less convex, the hinge margin is more curved, and the shell is more solid.

4. *Sph. striatinum*, Lam.

Cyclas striatina, Lam., An. s. vert., v. 560, 1818.

C. edentula, Say, N. Harm. Dissem. 2, 1829.

C. cornea, Lam., C. B. Adam's Cat., 1847.

C. albula, Prime, Bost. Proc. iv. 155, 1851.

C. tenuistriata, " loc. sub. cit., iv. 156, 1851.

C. acuminata, " " " iv. 158, 1851.

C. inornata, " " " iv. 159, 1851.

C. simplex, " " " iv. 159, 1851.

C. modesta, " " " iv. 159, 1851.

Animal white, tubes light reddish yellow.

Shell slight, transversely elongated, somewhat compressed, inequilateral; anterior margin rounded, posterior distended, inferior rounded; beaks full, not much raised; sulcations irregular, at times so light as hardly to be seen with the naked eye, thus giving the shell a lustrous appearance; color varying from a light greenish yellow to a darker shade; valves slight; interior blue; hinge margin slightly curved; cardinal teeth double, very small, of the same size; lateral teeth larger, not very prominent.

Long. 7-16; lat. 5-16; diam. 4-46 inches.

Hab. North America, in the States of New York, Connecticut, Pennsylvania, Michigan, Illinois, Ohio, Alabama, Tennessee, and in the Hell Gate river, Washington Territory.

(Cabinet. Academy of Nat. Sci. Phila., Jay, Prime and others.)

As may be seen by the above synonymy, I have been induced to unite under this species several which I described as distinct in 1851. The differences existing between these shells are at times quite marked, but in general characters they agree, and I am inclined to believe that these differences owe their origin solely to local causes.

I had occasion some time since to convince myself of the identity of the *Sph. striatinum* with the *Cyclas edentula* of Say.*

This species, which is not un plentiful in the localities where it is found, varies much in size, color and external appearance generally. The shell from Connecticut is so slight, that it is nearly translucent, and the striæ are so light as to impart to it a lustrous appearance; on the other hand, I have specimens from the Hoosack, which are quite heavy and coarsely striated; in the main, however, they all seem to tally. The variety from Alabama, described as the *Cyclas tenuistriata*, is less distended, is fuller, and the sulcations are hardly perceptible.

* Notes on some American species of *Cyclas*, etc., by Temple Prime. The Hague, 1857. 8vo.

Compared to the *Sph. solidulum*, this species is smaller, more inequilateral, less tumid, more compressed, less solid, less heavily sulcated, and its posterior extremity is more distended.

5. *Sph. stamineum*, Conrad.

Cyclas staminea, Conrad, Amer. Journ. xxv. 342, pl. 1, f. v. 1834.

C. fuscata, Rafn., Prime in Bost. Proc. iv. 281, 1852.

C. bulbosa, Anthony, Prime in loc. sub. cit., iv. 283, 1852.

Animal, not observed.

Shell oval, somewhat full, inequilateral; anterior generally abrupt; posterior slightly distended; beaks very full and prominent, widely separate at the apex, often eroded; epidermis dark brownish yellow; striæ heavy; valves strong; interior blue; hinge margin curved; cardinal teeth double, nearly obsolete; lateral teeth distinct, strong.

Long. 9-16; lat. 6-16; diam. 5-16 inches.

Hab. North America in the States of New Jersey, Ohio, Illinois, Arkansas and Alabama.

(Cabinet. Academy of Nat. Sci. of Phila., Conrad, Jay and Prime.)

I have been induced to unite to this species the *Cyclas fuscata*, Rafinesque, which I consider as nothing more than a large variety. The *Cyclas bulbosa*, Anthony, is a little more globose than Mr. Conrad's typical specimens, but presents no important characters of difference. The shells of this species found in New Jersey and in Illinois, are larger than those from Alabama.

This species differs from most of our North American ones by its full and very prominent beaks.

6. *Sph. rhomboideum*, Say.

Cyclas rhomboidea, Say, Acad. Nat. Sci. Phil., II. 2, 380, 1822.

C. corna, var. 3, Lam., An. s. vert. v. 558, 1818.

C. elegans, C. B. Adams, Bost. II. 3, 330. pl. 3, f. 11, 1840.

Animal, syphons reddish yellow.

Shell subglobular, rhombic-orbicular, equilateral; anterior margin truncated; posterior slightly angular; basal nearly straight; beaks full, but not prominent; valves slight, convex towards the beaks, gradually decreasing in fulness towards the margins; interior blue; sulcations very delicate; epidermis olive green, with often a straw-colored zone on the margins; young shell more compressed than the adult; hinge margin nearly straight; cardinal teeth rudimentary; lateral teeth distinct, somewhat acute, not elongated.

Long. 8-16; lat. 6-16; diam. 5-16 inches.

Hab. North America, in the States of Vermont, Connecticut, Massachusetts, New York and Ohio.

(Cabinet. Academy of Nat. Sci. Phila., Jay, Prime, and others.)

This, the most attractive species of *Sphærium*, is not easily confounded with any other. Up to within a few years it was usually known among collectors under the name of *Cyclas elegans*, Adams. I have stated elsewhere* my reasons for considering the *Cyclas elegans* as identical with Say's shell. Though no longer rare since 1851, when Mr. Whittemore found it in considerable abundance at one place near Cambridge, Mass., this species does not seem to be very widely distributed; it is confined to certain special localities.

7. *Sph. dentatum*, Hald.

Cyclas dentata, Hald., Acad. Nat. Sci. Phila. Proc. i. 100, 1841.

Animal, not observed.

* Annals of the N. Y. Lyceum, vol. vi. p. 66, 1853.

Shell large, ventricose, somewhat equilateral, inferior and anterior margins rounded; posterior somewhat angular; beaks large, well rounded, distant, not very prominent; hinge margin nearly straight; cardinal teeth single, distinct; lateral teeth not prominent; sulcations slight; epidermis olive green, with a dark narrow zone at some distance above the basal margin.

Long. 1-2; lat. 2-5; diam. 3-8 inches.

Hab. North America, in Oregon.

(Cabinet. Academy of Nat. Sci. Phila.)

The young shell is more elongated and more heavily sulcated than the adult; the beaks are less large and less tumid. This is a well marked species, compared to the *Sph. patella*, Gould, from the same section of the country it is found to be larger, more ventricose, the beaks are more inflated, and the color of the epidermis is different.

The only two specimens I have seen of the *Sph. dentatum* were those from which Mr. Haldeman described the species, an adult and a young one, which he was kind enough to lend me for study; they are now deposited in the collection of the Academy of Nat. Sci. of Philadelphia.

8. *Sph. fabalis*, Prime.

Cyclas fabalis, Prime, Bost. Proc. iv. 159, 1851.

C. castanea, Prime, loc. sub. cit., iv. 160, 1851.

C. sulculosa, DeCharpentier, Mss. 1851.

Animal, syphons crimson.

Shell transversely oval, compressed, nearly equilateral; anterior and basal margins rounded; posterior margin slightly abrupt; beaks not full, very much depressed; sulcations moderately heavy, very regular, quite distinct; epidermis light green, it is, however, sometimes quite dark; in the young it is often straw color; valves slight, interior blue; hinge margin very slightly curved; cardinal teeth small, assuming the shape of the letter V reversed; lateral teeth slight; anterior tooth somewhat more elevated, both placed very nearly on a line with the cardinal teeth.

Long. 9-16; lat. 7-16; diam. 4-16 inches.

Hab. North America, in the States of New York, Ohio, Illinois, Tennessee, Georgia and Virginia.

(Cabinet. Jay and Prime.)

This is a very distinct species; I know of no other to which it bears any resemblance; it is remarkable for its compressed appearance, and for the depression of its beaks. Though pretty widely distributed, it does not seem to be found any where in much abundance.

The epidermis of the shell is at times so entirely stained with a darkish substance, that it is with difficulty that its color can be detected.

9. *Sph. occidentale*, Prime.

Cyclas ovalis, (preoc.,) Prime, Bost. Proc., iv. 276, 1852.

Sph. ovale, Stimps. Adams, rec. gen. 2, 450, 1858.

Sph. occidentale, Prime, Ac. N. S. Phila., Proc., 295, 1860.

Animal not observed.

Shell oval, small, pellucid, fragile, equilateral, margins rounded; valves slight, rather convex; beaks full, rounded, not much raised; sulcations very fine, hardly visible; epidermis horn color; cardinal teeth very diminutive; lateral teeth more distinct.

Long. 5-16; lat. 4-16; diam. 3-16 inches.

Hab. N. America, in the States of New York, Vermont, Ohio, Wisconsin, Georgia and in the Hell Gate River, Washington Territory.

(Cabinets Academy N. S. of Phila., Jay and Prime.)

This species is remarkable for its completely oval shape, which renders it

quite distinct from all others. It is found not uncommonly. Compared to the *Sph. partumium*, under which name it has at times been sent to me, it is much smaller, the margins are more rounded, and the beaks are not so much raised.

10. *Sph. nobile*, Gould.

Cyclas nobilis, Gould, Bost. Proc., v. 229, 1855. Atlas of U. S. Explor. Expedit., pl. 36.

Animal not observed.

Shell rhombic-ovate, inequilateral, moderately compressed; anterior margin truncated, posterior more distended, basal curved; beaks rounded, inclined towards the front, slightly tumid, separate at apex; sulcations coarse; epidermis delicate, light brown; valves strong, interior white; hinge margin nearly straight, moderately broad; cardinal teeth single, distinct; lateral teeth moderately developed.

Long. 8-16; lat. 6-16; diam. 4-16 inches.

Hab. N. America, at San Pedro in the State of California.
(Cabinet. Gould and Prime.)

Compared to the *Sph. sulcatum* it is slighter, less sulcated, more compressed and less tumid. This species is rare, the only specimens I have seen were kindly presented to me by Dr. Gould.

11. *Sph. patella*, Gould.

Cyclas patella, Gould, Bost. Proc., iii. 292, 1850. Atlas U. S. Explor. Expedit., pl. 36.

Animal not observed.

Shell rounded oval, lenticular, compressed, equilateral; margins generally rounded; beaks central, small, hardly raised; valves slight, interior white; sulcations extremely fine; epidermis light, of a yellowish brown color; cardinal teeth very diminutive, so placed as to assume the shape of the letter V reversed; lateral teeth not prominent, elongated.

Long. 7-16; lat. 5-16; diam. 3-16 inches.

Hab. N. America, in Oregon.
(Cabinet. Gould and Prime.)

This species is peculiar, owing to its compressed oval shape and rounded beaks; compared to the *Sph. flavum* it is more oval, more equilateral, and its beaks are less tumid. The specimens in my cabinet came from Dr. Gould.

12. *Sph. Vermontanum*, Prime.

Proc. Ac. N. S. Phil. 128, 1861.

Animal not observed.

Shell very oblique, tumid, inequilateral, full; anterior margin abrupt, posterior drawn out to an angle, basal slightly curved; beaks large, full, prominent, placed very much towards the anterior, in which direction they are slightly inclined; sulcations coarse, moderately regular; epidermis light green; ligament conspicuous; valves solid, interior light blue; hinge margin much curved, broad; cardinal teeth strong, representing the letter V reversed; lateral teeth elongated, strong.

Long. 9-16; lat. 6-16; diam. 4-16 inches.

Hab. N. America, in Lakes Champlain and Memphramagog, Vermont.
(Cabinet. Prime.)

Remarkable for its very oblique and tumid shape, and for the abruptness of its anterior margin. Compared to the *Sph. stamineum*, it is more tumid and less heavily sulcated; it is less elongated and more tumid than the *Sph. striatum*. Quite rare. I have never seen but a few specimens of this species, which were received from the late Prof. Adams, of Amherst.

13. *Sph. emarginatum*, Prime.*Cyclas emarginata*, Prime, Bost. Proc. iv. 156, 1851.

Animal not observed.

Shell triangular, nearly equilateral, convex, tumid, anterior and posterior margins abrupt, posterior slightly more distended, basal margin curved; valves solid, interior white; beaks very full, prominent, nearly central; ligament distinct; sulcations regular, not heavy; epidermis brown, with several narrow transverse zones of a dark color at regular intervals; hinge margin curved; cardinal teeth single, quite distinct; lateral teeth not much elongated, strong.

Long. 6-16; lat. 6-16; diam. 4-16 inches.

Hab. N. America, in the region of Lake Superior.

(Cabinet. Agassiz and Prime.)

The triangular and very tumid form of this species is quite singular; it differs from the *Sph. Vermontanum* in being more tumid, fuller, in having larger beaks and in being much less broad at the base. The young shell is more elongated and less tumid than the adult. A rare species.

14. *Sph. flavum*, Prime.*Cyclas flava*, Prime, Bost. Proc., iv. 155, 1851.

Animal not observed.

Shell transversely rounded, compressed, equilateral, delicate, margins generally rounded, the posterior a little distended; beaks central, not full, more or less depressed; valves very slight, interior whitish; sulcations pretty deep, regular; epidermis light, of a greenish yellow color; cardinal teeth small, in the shape of the letter V reversed; lateral teeth elongated.

Long. 7-16; lat. 5-16; diam. 3-16 inches.

Hab. N. America, at the Sault St. Marie, Lake Superior.

(Cabinet. Agassiz, Jay and Prime.)

This is a very slight and delicate species, quite distinct from any others but the *Sph. patella*, to which it bears some general resemblance from its shape; it is, however, more compressed, less high, and the exterior of the valves is very different, as they are nearly smooth in Dr. Gould's shell. Found not un plentifully in the one locality.

15. *Sph. triangulare*, Say.

Cyclas triangularis, Say, New Harm. Dissem. 356, 1829.

Animal not observed. Shell transversely oval, nearly equilateral, rather full, anterior margin slightly distended, rounded, posterior somewhat abrupt, nasal rounded; beaks large, full, prominent; lines of growth regular, epidermis brownish; hinge margin narrow, curved; cardinal teeth very distinct, assuming the shape of the letter V reversed; lateral teeth prominent.

Long. 9-16; lat. 7-16; diam. 4-16 inches.

Hab. N. America, in Mexico. (Cabinet Acad. Nat. Sci. Philada.)

The specimens from which I have prepared this description were presented to the Academy of Natural Sciences of Philadelphia by Mrs. Say, as the *Cyclas triangularis*, Say; they may or may not be true representatives of Say's species. In many points they answer his description of the *C. triangularis*, but at the same time I am not able to reconcile their shape, which is not more triangular than that of any other species, with the name he has applied to the species. Moreover, they bear a very strong resemblance to one of our Northern *Sphærium*, the *Sph. solidulum*; they differ from it, however, in being less heavily and more regularly striated, and in having more prominent beaks.

b.—Species with protuberant or calyculate beaks.

16. *Sph. elevatum*, Hald.

Cyclas elevata, Hald., Acad. Nat. Sci. Phila., Proc., i. 53, 1841.

C. pallida, De Charp., MSS. 1851.

Animal not observed. Shell ovate, orbicular, nearly spherical, cavity large, equilateral, margins well rounded; beaks central, slightly inclined towards the anterior, lapping over the outline of the shell, large, tumid, approximate, calyculate, prominent; hinge margin slightly curved; cardinal teeth united, prominent; lateral ones elongated; large, valves very strong, interior bluish; surface smooth, striation light, irregular; color brownish olive, greatly varied by zones of a lighter shade, a zone of bright yellow bordering the inferior and part of the lateral margins.



Long. 9-16; lat. 8-16; diam. 5-16 inches.

Hab. N. America, at New Orleans, La., and in Florida and Alabama. (Cabinets Acad. Nat. Sci. Philada., and Prime.)

Remarkable for its transversely spherical shape, which renders it distinct from all other species of this genus. It is much more solid than the generality of calyculate species, the valves being as strong as those of any of the larger species of the preceding group.

The *Cyclas pallida*, the young of this species, is more delicate than the adult; it is a little less transversely spherical, the striæ are lighter, and the color is bright yellow.

Prof. Haldeman's original specimen of the *Cyclas elevata*, from which this description was prepared, and which is now in the cabinet of the Academy of Natural Sciences, though very perfect in appearance, comprised but a single valve.

This species seems to be very rare. I have never met with any other specimens but the one in the cabinet of the Academy and those I have in mine,—two specimens of the *Cyclas pallida*, derived from De Charpentier himself, and a single valve from Florida.

17. *Sph. partumium*, Say.

Cyclas partumia, Say, Acad. Nat. Sci. Phila., II. 2, 380, 1822.

C. cornea, var. 2, Lam., An. s. vert. v. 558, 1818.

C. orbicularia, Barrat, Amer. II. xlviii. 276, 1845.

C. mirabilis, Prime, Bost. Proc. iv. 157, 1851.

C. cærulea " loc. sub. cit. iv. 161, 1851.

C. eburæa, Anthony, " " " iv. 279, 1852.

Animal usually white, in some varieties pink, syphonal tubes pink. Shell rounded-oval, thin, fragile, pellucid, somewhat inflated, nearly equilateral; anterior margin very slightly distended, rounded; posterior slightly abrupt; basal rounded; beaks central, calyculate, approximate at apex; striæ so delicate as hardly to be visible; epidermis glossy, of a light greenish horn color, with at times a zone of a different shade on the basal margin; valves delicate, moderately convex, interior light blue; hinge margin nearly straight, passing by a regular curve into the anterior margin, but curving suddenly behind so as to form an obtuse angle, causing the posterior side to appear broader, thus giving the shell a somewhat rhombiform appearance; cardinal teeth strong, assuming the shape of the letter V reversed; lateral teeth very much elongated.

The young shell is more compressed than the adult; it is usually light yellow.

Long. 8-16; lat. 7-16; diam. 5-16 inches.

Hab. N. America, in the States of Maine, Vermont, Massachusetts, New York, New Jersey, Pennsylvania, Ohio, S. Carolina, Georgia, Mississippi, Alabama and Arkansas. (Cabinets Acad. Nat. Sci. Phila., Boston Soc. Nat. Hist., Garden of Plants at Paris, Agassiz, Jay and Prime.)

This species varies much according to the localities where it is found, which accounts in part for the number of names it has received. The *Cyclas orbicularia*, of which I have authentic specimens from Mr. Barrat, is a genuine *Sph. partumium*, without even any local modifications of shape. The *Cyclas mirabilis*, from Georgia, is a small form of this species, and the *Cyclas cœrulea* differs from the type in being a little less inflated. The *Cyclas eburnea*, from Arkansas, varies from the Northern *Sph. partumium* in being more compressed and a little more elevated. I do not think, however, taking the difference of localities into consideration, that these are characters sufficient to warrant retaining the *Cyclas eburnea* as a distinct species. I had an opportunity while in Paris to assure myself that the variety No. 2 of *Cyclas cornea* was a true *Sph. partumium*.

This species is not only very widely distributed, but where it is found, it occurs in large numbers. The only one of our Northern species to which it bears much resemblance is the *Sph. truncatum*, and that is only in general outline; the *Sph. partumium* is much more inflated and transversely more broad.

18. *Sph. Jayanum*, Prime.

Cyclas Jayensis, Prime, Bost. Proc. iv. 157, 1851.

Animal not observed. Shell rhombic, nearly equilateral, moderately convex, thin, fragile, somewhat translucent, drawn up to an angle towards the hinge margin; anterior and posterior margins very abrupt, inferior very slightly curved; beaks central, calyculate, approximate at apex; hinge margin considerably shorter than the basal margin, slightly curved; cardinal teeth distinct in the shape of the letter V reversed; lateral teeth elongated; valves delicate, interior light blue; striæ hardly visible; epidermis glossy, light greenish horn color, with at times a zone of bright yellow on the inferior margin.

Long. 8-16; lat. 7-16; diam. 3-16 inches.

Hab. N. America, in the region of Lake Superior? (Cabinets Agassiz, Jay, Garden of Plants in Paris, and Prime.)

This attractive and rare species is easily distinguished by its elevated shape and by its abrupt lateral margins, which give it a somewhat triangular appearance. It is related to the *Sph. Ryckholtii* of Europe, from which it differs, however, in being more inflated, its beaks are less prominent, the shell is more elevated, and its anterior margin is abrupt, whereas in *Sph. Ryckholtii* it is distended and angular.

19. *Sph. subtransversum*, Prime, Proc. Zool. xxviii. 322, 1860.

Animal not observed. Shell small, transversely oblong, equilateral, trans-

lucent, fragile, compressed; beaks central, large, calyculate; striæ very delicate; epidermis greenish yellow.

Long. 3-10; lat. 2-10; diam. 1-10 inches.

Hab. N. America, at Tabasco in Mexico. (Cabinet Cuming.)

The only specimen I have seen of this species was sent to me for description by Mr. Cuming.

20. *Sph. argentinum*, D'Orbigny.

Cyclas argentina, D'Orb., Mag. de Zool. 1835. Voy. en Amer. Mérid. 568, pl. 83, f. 5-7, 1844.

Animal not observed. Shell oval, small, translucent, compressed; anterior side short, somewhat angular, posterior side distended and truncated at the end; beaks calyculate; striæ delicate; epidermis greenish brown; valves slight, interior bluish; cardinal teeth united, lateral teeth hardly visible.

Long. 5-16; lat. 4-16 inches.

Hab. S. America, at Montevideo at the base of the Cerro. (Cabinet British Museum.)

It has not been my good fortune to meet with this species. M. D'Orbigny says it bears some resemblance to the *Cyclas caliculata*, meaning thereby, I presume, the shell now known to European conchologists under the name of *Sph. lacustre*, Férussac.

21. *Sph. tenue*, Prime.

Cyclas tenuis, Prime, Bost. Proc. iv. 161, 1851.

Animal not observed. Shell small, transversely oblong, pellucid, moderately full, subequilateral; anterior and basal margins rounded, posterior margin subabrupt; beaks nearly central, not prominent, calyculate; striations very fine and regular, hardly perceptible; epidermis glossy, light straw color; valves slight, interior straw color; hinge margin short, narrow, nearly straight; cardinal teeth very diminutive, lateral teeth small, elongated.

Long. 3-16; lat. 2-16; diam. 1-16 inches.

Hab. N. America, in the Androscoggin, Maine. (Cabinet Prime.)

This species, the smallest one known to inhabit the United States, was discovered some years since by Mr. Girard, from whom I obtained my specimens, the only ones I have met with. It may possibly be the young of some species, but if so, it would be very difficult to say which; setting aside its diminutive size, it appears to have all the characteristics of a mature shell. In outline it seems to be allied to the *Sph. transversum*; it is, however, more inflated, less elongated, and its margins are more rounded. At first sight, it might readily be mistaken for a *Pisidium*.

22. *Sph. transversum*, Say.

Cyclas transversa, Say, New Harm. Dissem. 2, 356, 1829.

C. detruncata, Prime, Bost. Proc. iv. 155, 1851.

C. gracile, " loc. sub. cit. iv. 156, 1851.

C. constricta, Anthony, " " " iv. 274, 1852.

Animal white, syphonal tubes pink, foot white. Shell transversely oblong, elongated, subinequilateral, translucent; anterior side narrow; anterior margin rounded, posterior margin subtruncate, basal very much curved; beaks placed somewhat on the anterior side, large, calyculate, very much raised above the outline of the shell; striæ very delicate; epidermis greenish yellow, of a darker shade at times on the region of beaks; valves slight, interior bluish; hinge margin very nearly straight, narrow; cardinal teeth compressed, in the shape of the letter V reversed, and very much expanded; lateral teeth slightly elongated.

Long. 10-16; lat. 7-16; diam. 4-16 inches.

Hab. N. America, in the States of New York, Pennsylvania, Ohio, Kentucky and Arkansas. (Cabinets Jay and Prime.)

This large and delicate species is remarkable for its very transverse shape and for the narrowness of the anterior extremity as compared to the posterior.

The form of the shell recalls that of many of the small species from the West Indies and South America. It is found in considerable abundance.

The *Cyclas detruncata* does not differ sufficiently from the type to constitute even a variety. The *Cyclas gracilis* is a large variety of *Sph. transversum*, it is a little more inflated and of a darker color. The *Cyclas constricta* is nothing more than a deformed specimen of Say's species, having a perpendicular furrow up the centre of each valve, caused by some accident occurring to the shell during its growth.

23. *Sph. Bahiense*, Spix.

Cyclas Bahiensis, Spix, Tert. Braz. 32, pl. xxv. f. 5, 6, 1827.

C. maculata, Anton, (non Morelet,) Wieg. Archiv, 284, 1837.

Pisum maculatum, Desh., Brit. Mus. Cat. 283, 1854.

P. Bahiense " loc. sub. cit. 284, 1854.

Musculum Bahiense, Adams, rec. gen. ii. 451, 1858.

M. maculatum, " loc. sub. cit. ii. 451, 1858.

Animal not observed. Shell very small, rounded-oval, inflated, inequilateral; anterior margin narrow, curved; posterior margin broad, subtruncate; inferior margin curved; beaks inclined towards the anterior, large, prominent, calyculate; valves slight, interior dark yellow, irregularly mottled with dark reddish spots; lines of growth very fine; epidermis yellowish brown, with irregular spots of dark purple; hinge margin very narrow, nearly straight; cardinal teeth small; lateral teeth comparatively strong, the posterior one much the longer.

Long. 5-32; lat. 2-16; diam. 3-32 inches.

Hab. S. America, at Bahia in Brazil. (Cabinets Jay, Prime and others.)

This, the smallest species of *Spharium*, has the peculiar appearance characteristic of the West Indian and South American shells of this genus. It does not seem to be uncommon. Some authors, led away by its diminutive size, have committed the error, as may be seen by the above synonymy, of placing it under the head of *Pisidium*. I have never seen the *Cyclas maculata* of Anton, (non Morelet,) but have every reason to believe, from the description given of it, that it does not differ materially from this species. In outline it is somewhat similar to the *Sph. Barbadosense*; it is, however, much smaller, less inflated, and the beaks are much more raised. Compared to the *Sph. meridionale*, Nobis, and *Sph. maculatum*, Morelet, it is smaller, more inflated, and the margins are more rounded.

24. *Sph. Barbadosense*, Prime, Proc. Acad. Nat. Sci. Phila., 1861.

Animal not observed. Shell small, rounded-oval, ventricose, subequilateral, delicate; anterior side a little the shorter and narrower; margins generally rounded; beaks slightly inclined towards the anterior, nearly central, small, calyculate, approximate at apex, at times eroded; striae coarse for the size of the shell, though not very distinct; epidermis dark greenish-brown; valves slight, very convex; cardinal teeth very small; lateral teeth strong, very much drawn up and shorter than they usually are in other species.

Long. $\frac{1}{4}$; lat. 1-5; diam. 5-32 inches.

Hab. Barbadoes, West Indies. (Cabinet Prime.)

I have but one specimen of this species, which seems to be closely allied to the *Sph. Bahiense* of Brazil; it is, however, much larger, more globose, and its beaks are not as much raised.

25. *Sph. modioliforme*, Anton.

Cyclas modioliformis, Anton, Wieg. Archiv, 284, 1837.

Pisidium diaphanum, Hald., Proc. Acad. Nat. Sci. Phila., i. 53, 1841.

Pisum modioliforme, Deshayes, Brit. Mus. Cat. 283, 1854.

Pisidium Moquinianum, Bourgt., Amen. i. 61, pl. 3, f. 13—17, 1855.

Cyclas Moquiniana, Gassies, Pisid. S. O. f. 9, 1855.

C. striatella, Ferussac, Museum of Paris.

C. littoralis " Collect. Michaud.

C. Venezuelensis, Prime, Museum at Leyden.

Musculum modioliforme, Adams, rec. gen. ii. 451, 1858.

Animal not observed. Shell small, ovate-oblong, moderately inflated, inequilateral, translucent; anterior and basal margins rounded, posterior somewhat distended and subtruncate; beaks inclined towards the anterior, prominent, calyculate; valves slight, convex; epidermis dark yellow, irregularly spotted with a darker color; striæ hardly visible; teeth very small; hinge margin somewhat curved, very narrow.

Long. 5-16; lat. 3-16; diam. 5-32 inches.

Hab. S. America, in Brazil and Venezuela. (Cabinets Acad. Nat. Sci. Phila., Bourguignat, Gassies, Museum of Paris, Michaud, and Museum at Leyden.)

The specimen from which this description was prepared—the original shell from which Mr. Haldeman described the *Pisid. diaphanum*—is in the Cabinet of the Academy of Natural Sciences of Philadelphia. It was discovered in the interior of a large *Ampullaria* from Brazil. I have never seen the *Cyclas modioliformis* or the *Pisid. Moquinianum*, but judging from their descriptions and from the figure of the latter, I have little doubt but that they belong to the same species. I have had occasion to examine the *Cyclas striatella*, *littoralis* and *Venezuelensis* personally.

The *Sph. modioliforme* seems to be rare. It bears some resemblance to the *Sph. meridionale*, but it differs from it in being more inflated and of a lighter color.

26. *Sph. meridionale*, Prime, Proc. Acad. Nat. Sci. Phila., 1861.

Animal not observed. Shell small, transversely-oblong, compressed, delicate, inequilateral; anterior side narrow, shorter; anterior margin somewhat angular, posterior subabrupt, basal slightly rounded; beaks inclined towards the anterior, small, calyculate, approximate at apex; valves slight, compressed, striæ very regular and delicate, hardly perceptible; epidermis yellowish brown, irregularly mottled with large blotches of a much darker color; hinge margin very slightly rounded, narrow, much shorter than the basal margin; cardinal teeth diminutive; lateral teeth slight, the posterior tooth much the more elongated.

Long. $\frac{1}{8}$; lat. 1-5; diam. 2-16 inches.

Hab. N. America, at Panama. (Cabinet Prime.)

This species, of which I have never seen but one specimen, is easily distinguished by its very inequilateral and compressed shape. Compared to the *Sph. maculatum*, it is larger, its posterior margin is less abrupt, and its lateral teeth are larger.

27. *Sph. maculatum*, Morelet.

Cyclas maculata, Morelet, Test. Insul. Cub., etc., pt. 2d, 25, 1851.

Animal not observed. Shell small, transversely-oblong, rhombic, elongated, inequilateral, compressed, delicate; anterior side much the narrower, slightly rounded; posterior side very broad; posterior margin abrupt, forming a straight line from the hinge to the base of the shell; inferior margin nearly straight; valves slight, very little convex; beaks small, calyculate, inclined towards the anterior side; striæ not perceptible; epidermis dark yellowish-brown, irregularly mottled with spots of a much darker color; hinge margin nearly straight; cardinal teeth very small; lateral teeth strong, elongated.

Long. 4-16; lat. 3-16; diam. 2-16 inches.

Hab. N. America, in Yucatan. (Cabinets Morelet, Jay and Prime.)

A rare species; the only specimens I have met with were kindly presented to me by the original describer. It is easily distinguished from all other species of *Sphærium* by the very great disproportion which exists between the lateral margins.

28. *Sph. Veatleyi*, C. B. Adams.*Cyclas Veatleyi*, C. B. Adams, Contrib. Conch. 44, 1849.*Pisidium* " Petit, Il. Conch. ii. 421, 1851.*Pisum* " Desh., Brit. Mus. Cat. 283, 1854.*Musculium* " Adams, rec. gen. ii. 452, 1858.

Animal not observed. Shell small, transversely elongated, inequilateral, compressed; anterior and inferior margins rounded; posterior margin subtruncate; beaks situated towards the anterior side and inclined in that direction, small, prominent, calyculate; valves slight, interior irregularly spotted with dark blotches; striæ regular, coarse for the size of the shell; epidermis horn color with a tinge of brown; hinge margin nearly straight; cardinal teeth small but distinct, placed in the shape of the letter V reversed; lateral teeth well developed, elongated.

Long. 3-16; lat. 2-16; diam. 1-16 inches.

Hab. N. America, in the Island of Jamaica. (Cabinets Jay and Prime.)

This rare species, of which I received specimens from the late Prof. Adams, is somewhat allied to the *Sph. Portoricense*; it is, however, smaller, more delicate, more elongated, the valves are less full, the beaks less large, and the hinge in every way more slight.

29. *Sph. Portoricense*, Prime, Proc. Acad. Nat. Sci. Phila., 1861.

Animal not observed. Shell small, transversely elongated, rhombic, equilateral, slightly compressed; margins generally straight, in especial the posterior margin; beaks central, slightly inclined towards the anterior side, calyculate, approximate at apex; striæ regular, quite heavy considering the size of the shell; epidermis light brownish-yellow; cardinal teeth strong; lateral teeth strong, very much drawn up; valves solid, very little convex; the interior, and at times the exterior, irregularly spotted with a few dots of very dark color.

Long. $\frac{1}{4}$; lat. 1-5; diam. $\frac{1}{8}$ inches.*Hab.* Portorico, West Indies. (Cabinets Swift and Prime.)

The specimens from which this description were prepared were kindly furnished to me by Mr. Swift of St. Thomas. In proportion to its size this species is quite robust. It is different from the generality of the West Indian and South American *Sphæria* by its sulcations, which are regular and deep. In shape and appearance it recalls the young of *Sph. sulcatum*. It is allied to *Sph. Veatleyi* in outline, but otherwise it is different, in being heavier and of a larger size.

30. *Sph. securis*, Prime.*Cyclas securis*, Prime, Bost. Proc. iv. 160, 1851. Ann. N. Y. Lyceum, v. 218, pl. vi. 1851.*C. cardissa*, Prime, Bost. Proc. iv. 160, 1851.*C. crocea*, Lewis, loc. sub. cit. v. 25, 1854.

Animal pinkish, syphons of the same color. Shell rhombic-orbicular, ventricose, subequilateral, both sides of very nearly the same length; anterior margin a little curved; posterior margin abrupt, forming an obtuse angle with the hinge margin; basal margin much longer than the superior margin, rounded; beaks large, calyculate, slightly inclined towards the anterior, very approximate at apex; valves slight, very convex, especially in the region of the umbones; striæ delicate, regular, hardly perceptible; epidermis glossy in some cases, very variable in color, but generally of a greenish-horn, at times of a brilliant yellow or straw color; hinge margin curved, narrow; cardinal teeth very small, united at base; lateral teeth slight, elongated, very narrow.

Long. 6-16; lat. 5-16; diam. 4-16 inches.

Hab. N. America, in the States of Massachusetts, Vermont, Pennsylvania and New York. (Cabinets Jay, Lewis and Prime.)

Found plentifully at Cambridge, Mass. I cannot see differences sufficient between the *Sph. securis* and the *Cyclas cardissa* to separate them; the *Cyclas cardissa* is more globose, transversely shorter, more elevated, but still intermediate forms uniting the two are so frequent that it is not possible that they should form distinct species.

The *Cyclas crocea*, Lewis, is a young of this species.

Compared to the *Sph. sphaericum*, the *Sph. securis* is more equilateral, the beaks are less tumid and less inclined, the sides are less rounded, and the hinge margin is less curved.

31. *Sph. rosaceum*, Prime.

Cyclas rosacea, Prime, Bost. Proc. iv. 155, 1851.

Animal not observed. Shell small, rounded-oval, fragile, translucent, subequilateral, somewhat compressed, margins generally rounded; beaks nearly central, slightly inclined towards the anterior, calyculate, approximate at apex; valves very slight, a little convex in the region of the umbones; striae regular, hardly visible; epidermis shiny, reddish-brown; hinge margin nearly straight, delicate, narrow; cardinal teeth nearly obsolete, lateral teeth slight, elongated.

Long. 4-16; lat. 3-16; diam. 5-32 inches.

Hab. N. America, in the Schuylkill River. (Cabinet Prime.)

This species, which is very rare, the only specimens known to me being those in my collection, is not very liable to be confounded with others. Compared to the *Sph. occidentale*, it is less full, the beaks are more prominent and are calyculate.

32. *Sph. sphaericum*, Anthony.

Cyclas sphaerica, Anthony, Bost. Proc. iv. 275, 1852.

Animal not observed. Shell globose, subequilateral, transversely oval; anterior side narrow, distended, rounded; inferior margin rounded; posterior margin subabrupt; beaks inclined towards the anterior, large, prominent, calyculate; valves slight, very convex, interior blue; striae fine and regular; epidermis greenish; hinge margin much curved; cardinal teeth strong, united at base and disposed in the shape of the letter V reversed; lateral teeth prominent, very distinct, rather short.

Long. 5-16; lat. 9-32; diam. 3-16 inches.

Hab. N. America, in the Black River, Ohio. (Cabinets Anthony and Prime.)

Very rare; I have never seen any specimens of this species but those in Mr. Anthony's collection and in mine. Compared to the *Sph. rosaceum*, it is less equilateral, more inflated and the margins are less rounded.

33. *Sph. truncatum*, Linsley.

Cyclas calyculata, C. B. Adams, Amer. Il., xi. 277, 1841.

" *truncata*, Linsley, Amer. Il., N. Ser., vi. 234, f. 3, 1848.

" *pellucida*, Prime, Boston Proc., iv. 277, 1852.

Animal not observed. Shell rhombic-orbicular, lenticular, thin, pellucid, very slightly inflated, subequilateral; anterior side narrower; anterior margin rounded; posterior margin nearly a straight line; basal somewhat curved; beaks central, calyculate, approximate at apex; striae very delicate; epidermis glossy, light greenish horn color; valves slight, very little convex; interior light blue; hinge margin very nearly straight; very narrow; cardinal teeth diminutive, united at base; lateral teeth slight, narrow, not much elongated.



Long. 6-16; lat. 5-16; diam. 5-32 inches.

Hab. N. America, in the States of Maine, Vermont, Massachusetts, Connecticut, New York and Ohio. (Cabinets Linsley, Gould and Prime.)

The specimens from which this description was prepared, the same ones from which Dr. Gould described the original *Cyclas truncata*, are precisely similar to those the late Prof. Adams sent to me labelled *Cyclas calyculata*, from Vermont, and which I described, in 1852, under the name of *Cyclas pellucida*. This species is undoubtedly very closely allied to the *Sph. lacustre*, Férussac (*Cyclas calyculata* of authors) of Europe, but still the differences are patent enough to authorize its being retained as distinct. Compared to the *Sph. partumium*, the *Sph. truncatum* is less inflated, transversely less broad, the posterior margin is more abrupt and the hinge slighter. The young, more tumid than the adult, is of a lemon yellow. Found not uncommonly.

34. *Sph. lenticula*, Gould.

Lucina lenticula, Gould, Bost. Proc., iii. 256, 1850.

Cyclas lenticula, Gould, Atlas Explor. Exped., pl. 36, f. 528.

Animal not observed. Shell rhombic-orbicular, lenticular, thin, pellucid, very slightly inflated, nearly equilateral; anterior side narrower; anterior margin curved; posterior margin abrupt, inferior rounded; beaks central, calyculate, approximate at apex; striæ hardly visible; epidermis glossy, light greenish horn color; valves delicate, a little convex towards the region of the umbones; interior light blue; hinge margin nearly straight, narrow; cardinal teeth hardly visible, united at base; lateral teeth slight, narrow, not much elongated.

Long. 7-16; lat. 6-16; diam. 3-16 inches.

(Cabinets Gould, Anthony and Prime.)

Hab. N. America, in Carson River, California.

This species, of which I obtained specimens from Dr. Gould, is so similar in nearly every respect to the *Sph. truncatum*, that it is very difficult to tell them apart. The valves of the *Sph. lenticula* are perhaps a little more convex as they approach the region of the beaks, and the hinge margin a little more curved and less narrow. The young shell is of the same color as the adult, whereas, with *Sph. truncatum*, the young is of a lighter color.

Fossil Species.

35. *Sph. recticardiale*, Meek and Hayden, Ac. N. S. Phil., Proc., 176, 1860.

Shell of medium size, transversely subelliptical, rather compressed, very thin; anterior side rounded; base forming a regular semielliptic curve; posterior extremity obliquely subtruncate above and rather narrowly rounded below; cardinal margin long and straight; beaks very small, compressed and projecting but slightly above the hinge, located nearly half way between the middle and the anterior end; surface marked by moderately distinct, irregular lines of growth.

Long. 0.55; lat. 0.36; diam. 0.24 inch.

Hab. Near the mouth of Grand River, on the Upper Missouri, Nebraska, U. S. of America. Tertiary Formation.

36. *Sph. planum*, Meek and Hayden, Ac. N. S. Phil., Proc., 175, 1860.

Shell rather small, broad oval or subcircular, much compressed; extremities more or less regularly rounded, the posterior margin being sometimes faintly subtruncate; base semioval in outline; cardinal margin rounding gradually from near the middle; beaks very small, compressed, and scarcely extending beyond the hinge margin, nearly central; surface marked by fine, irregular, obscure concentric striæ.

Long. 0.38; lat. 0.32; diam. 0.08 inch.

Hab. Near the mouth of Grand River, on the Upper Missouri, Nebraska, U. S. of America. Tertiary formation.

37. *Sph. formosum*, Meek and Hayden.

Cyclas formosa, M. & H., Ac. N. S. Phil., Proc., 115, 1856.

" *fragilis*, M. & H., loc. sub. cit., 115, 1856.

Shell small, oval, oblique, scarcely ventricose; cardinal margin straight; buccal end rounded; anal extremity obliquely truncate; basal margin semi-elliptical or broadly rounded; beaks obtuse, tumid, rising somewhat above the hinge, nearly touching, placed a little in advance of the middle; surface ornamented by very fine, regular, distinct, concentric wrinkles.

Long. .17; lat. .08; diam. .14 inch.

Hab. Three miles above Fort Union, Nebraska, U. S. of America. Tertiary Formation.

38. *Sph. subellipticum*, Meek and Hayden.

Cyclas subelliptica, M. & H., Ac. N. S. Phil. Proc., 115, 1856.

Shell small, elliptical-ovate, somewhat ventricose, thin and fragile; posterior end narrower than the anterior, both narrowly rounded; base semi-elliptical or semioval; cardinal border apparently rounding gradually to both extremities; beaks not much elevated, pointed, incurved, not oblique, located near the middle; surface indistinctly marked with lines of growth.

Long. .24; lat. .14 inch.

Hab. Three miles above Fort Union, Nebraska, U. S. of America. Tertiary Formation.

"The beaks are so near the middle, and curved so nearly at right angles to the longitudinal diameter of the shell, that it is not easy to determine, especially from the examination of mutilated specimens, which is the posterior or which the anterior end. As we have only seen imperfect specimens, we are not sure the surface markings are indistinct on unworn shells."—M. & H.

The following shells, known under the name of *Cyclas*, must be excluded from the list of American species of *Sphærium*, in some cases because they have been improperly placed in this genus, and in others, because no description has been published:—

Cyclas aequalis, Rafinesque, is *Pisid. Virginicum*.

" *altilis*, Anthony, is *Pisid. compressum*.

" *Americana*, Christof. and Jan. Undescribed.

" *Caroliniana*, Bos., is *Cyrena Caroliniensis*.

" *Chilensis*, D'Orbigny, is *Pisid. Chilense*.

" *clandestina*, Da Costa, is a marine shell.

" *densata*, D'Orbigny, (fossil,) is *Cyrena densata*.

" *dubia*, Say, is *Pisid. Virginicum*.

" *fluviatilis*, Bosc, is a *Corbicula*.

" *Fontainei*, D'Orbigny, is *Cyrena Fontainei*.

" *hammalis*, Rafin., is a *Corbicula*.

" *limosa*, D'Orbigny, is *Corbicula limosa*.

" *maritima*, D'Orbigny, is *Cyrena Cubensis*.

" *minor*, C. B. Adams, is *Pisid. abditum*.

" *nitida*, Adams & Mighl., is *Pisid. Adamsi*.

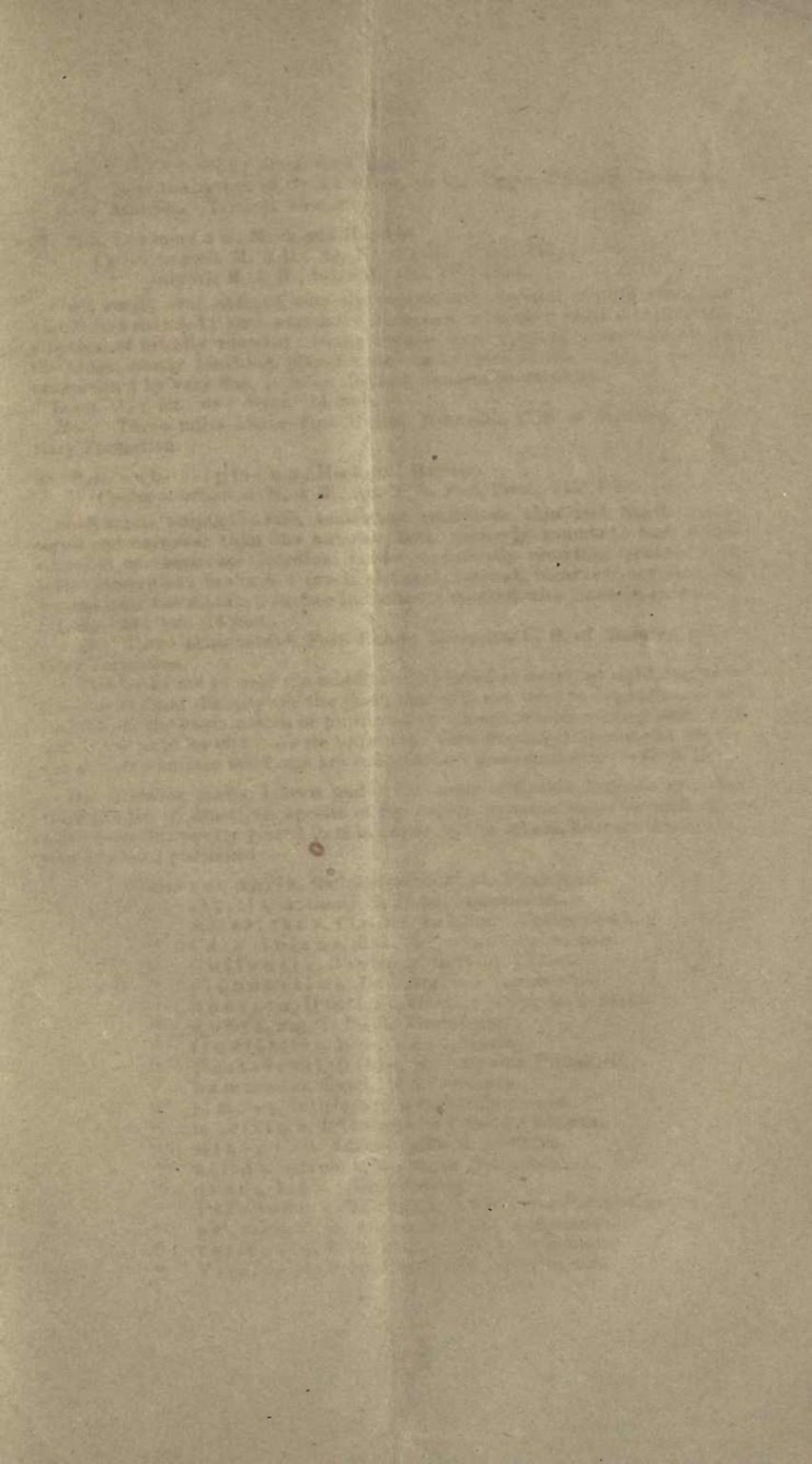
" *ovata*, Lewis. Undescribed.

" *Paranensis*, D'Orbigny, is *Corbicula Paranensis*.

" *pygmea*, C. B. Adams, is *Pisid. Jamaicense*.

" *variegata*, D'Orbigny, is *Corbicula limosa*.

" *Virginica*, Férussac, is *Pisid. Virginicum*.



a f c v r

CATALOGUE

OF THE RECENT SPECIES OF THE

FAMILY CORBICULADÆ.

BY TEMPLE PRIME.

Family **CORBICULADÆ**, Gray.

Proc. Zool. Lond. xv, 184, 1847.

- Les Conques* (ex parte), Lamarck, Lam. Phil. Zool. i, 318, 1809.
- Les Conques fluviatiles*, Lamarck, Lam. An. v, 556, 1818.
- Veneriadæ*, Leach, in litt. 1818.
- Cycladia*, Rafinesque, Ann. Gen. Sci. Phys. et Nat. v, 1820.
- Les Cyclades*, Férussac, Tab. Syst. 43, 1822.
- Cycladina*, Latreille, Fam. Nat. 218, 1825.
- Cycladæ*, Fleming, Hist. Brit. An. 409, 1828.
- Cycladea*, Deshayes, Encycl. Méth. 1830.
- Cyrenidæ*, Gray, Synop. Brit. Mus. 75, 91, 1840.
- Cycladacea*, Hinds, Voy. Sulph. 66, 1844.
- Cyclasidæ*, D'Orbigny, Voy. 566, 1846.

GENUS **CORBICULA**, Megerle.

Mag. Gesell. Naturf. Berl. v, 56, 1811.

- Tellina* (pars), Müller, Verm. ii, 205, 1774.
- Venus* (pars), Chemnitz, Martini et Chemnitz vi, 320, 1782.
- Cyclas* (pars), Bruguière, Encycl. Méth. 1792.
- Cyrena*, Lamarck, Lam. An. v, 552, 1818.
- Venulites*, Schloth, Petref. 200, 1820.

1. Corb. Africana, Deshayes.*Cyrena Africana*, Krauss, Moll. S. A. 8, pl. 1, f. 8, 1848.*Cyrena Gauritziana*, Krauss, in litt. 1848.*Corbicula Africana*, Deshayes, Brit. Mus. Cat. Conchif. 222, 1854. Prime, Cat. Corb. 4, 1863. Ann. Lyc. N. H. N. Y. viii, 224, f. 57, 1866. *Cape of Good Hope, Africa.***2. Corb. Agrensis**, Prime.*Cyrena Agrensis*, Kurr, in litt.*Corbicula Agrensis*, Prime, Proc. Ac. N. S. Phila. 128, 1861. Prime Cat. Corb. 3, 1863. Ann. Lyc. N. H. N. Y. viii, 75, f. 24, 1864. *Agra, India.***3. Corb. ambigua**, Deshayes, Proc. Zool. Lond. xxii, 345, 1854.Brit. Mus. Cat. Conchif. 223, 1854. *R. Euphrates.***4. Corb. Amazonica**, Anthony, Ann. Lyc. N. H. N. Y. ix, 1869. *Rio Amazon.***5. Corb. amiralis**, Prime, Ann. Lyc. N. H. N. Y. ix, 1869. *Cochin China.***6. Corb. Angasi**, Prime, Cat. Corb. 4, 1863.J. Conchyl. xii, 151, pl. vii, f. 6, 1864. *Murray River, S. Australia.***7. Corb. Astartina**, Martens.*Cyrena Astartina*, Martens, Malak. Bl. vi, 219, pl. iii, f. 6, 7, 1859. *Lake Nyassa, Africa.***8. Corb. Australis**, Deshayes.*Cyclas Australis* (exclus. var.), Lamarck, Lam. An. v, 560, 1818.*Cyrena Australis*, Deshayes, Wood Index Test. Suppl. 2, pl. xiv. f. 57, 1828. Encycl. Meth. ii. 50, 1830. Lam. An. Desh. ed. vi, 270, 1835.*Corbicula Australis*, Deshayes, Brit. Mus. Cat. Conchif. 230, 1854. Prime, Cat. Corb. 4, 1863. *Island of Timor.***9. Corb. baronialis**, Prime, Ann. Lyc. N. H. N. Y. ix, 1869. *Moreton Bay, Australia.***10. Corb. Bengalica**, Deshayes, Proc. Zool. Lond. xxii, 344, 1854.Brit. Mus. Cat. Conchif. 224, 1854. Prime, Cat. Corb. 4, 1863. Ann. Lyc. N. H. N. Y. viii, 220, f. 52, 1866. *Bengal.***11. Corb. Bensonii**, Deshayes, Proc. Zool. Lond. xxii, 345, 1854.Brit. Mus. Cat. Conchif. 223, 1854. *Bengal.*

12. **Corb. Blandiana**, Prime, Ann. Lyc. N. H. N. Y. viii, 71,
f. 18, 1864. *Laos Mountains, Cambodia.*
13. **Corb. Bocourti**, Morelet, I. Conchyl. xiii, 228, 1865.
Cochin China.
14. **Corb. borealis**, Prime.
(*Venus borealis*, Chemnitz, Martini et Chemnitz, vii, 26, pl.
xxxix, f. 412, f. 414, 1784)?
Cyclas, Encycl. Méth. pl. 302, f. 3, 1792.
Cyclas borealis, Lamarck, Ann. Mus. Hist. Nat. vii, 421
1806.
Cyrena depressa, Lamarck, Lam. An. v, 553, 1818.
Hab.—?
15. **Corb. Brasiliana**, Deshayes, Brit. Mus. Cat. Conchif. 232,
1854.
Smith. Inst. Misc. Coll. Prime, Monog. Corb. 7, 1865.
Brazil.
16. **Corb. brunnea**, Prime, Proc. Ac. N. S. Phila. 126, 1861.
Prime, Cat. Corb. 3, 1863. Ann. Lyc. N. H. N. Y. viii,
67, f. 13, 1864. *Tasmania.*
17. **Corb. castanea**, Morelet, J. Conchyl. xiii, 228, 1865.
Cochin China.
18. **Corb. Cashmiriensis**, Deshayes, Proc. Zool. Lond. xxii,
344, 1854.
Brit. Mus. Cat. Conchif. 224, 1854. *Cashmere.*
19. **Corb. Chemnitziana**, Prime, Ann. Lyc. N. H. N. Y. viii,
60, f. 5, 1864. *China?*
20. **Corb. colonialis**, Prime, Ann. Lyc. N. H. N. Y. viii, 416,
1867. *Java.*
21. **Corb. compressa**, Deshayes.
Cyrena compressa, Mousson, in litt.
Corb. compressa, Deshayes, Brit. Mus. Cat. Conchif. 227, 1854.
Java.
22. **Corb. consanguinea**, Prime, Ann. Lyc. N. H. N. Y. viii,
417, 1867. *India.*
23. **Corb. consobrina**, Deshayes.
Cyrena consobrina, Cailliaud, Voy. ii, 263, pl. lxi, f. 10, 11,
1826.
Cyclas consobrina, Cailliaud, Cat. and Reeve, Nomencl. 29,
1845. *River Nile.*
24. **Corb. consularis**, Prime, Ann. Lyc. N. H. N. Y. ix,
1869. *Malacca.*

- 25. Corb. convexa**, Deshayes, Proc. Zool. Lond. xxii, 342, 1854.
 Brit. Mus. Cat. Conchif. 231, 1854.
Corbicula ventricosa, Prime, in litt.
Corbicula convexa, Deshayes, Prime, Cat. Corb. 3, 1863.
 Smith. Inst. Misc. Coll. Prime Monog. Corb. 3, f. 1, 1865. *Central America and Mexico.*
- 26. C. cor**, Deshayes.
Cyrena cor, Lamarck, Lam. An. v, 552, 1818. Delessert, Recueil, pl. vii, f. 7, 1841.
Corbicula cor, Deshayes, Brit. Mus. Cat. Conchif. 221, 1854.
 Ann. Lyc. N. H. N. Y. viii, 63, f. 8, 1864. *East Indies.*
- 27. C. crassula**, Mousson. Mousson, Bellardi, Cat. 54, f. 12, 1854.
 Prime, Cat. Corb. 3, 1863. Ann. Lyc. N. H. N. Y. viii, 216, f. 54, 55, 1866. *Syria.*
- 28. C. Crosseana**, Prime, Ann. Lyc. N. H. N. Y. viii, 72, f. 20, 1864. *Philippine Islands.*
- 29. C. Cumingii**, Deshayes, Brit. Mus. Cat. Conchif. 228, 1854.
Corbicula squalida, Deshayes, Proc. Zool. Lond. xxii, 342, 1854. Brit. Mus. Cat. Conchif. 233, 1854.
Corbicula notata, Prime, Proc. Ac. N. S. Phila. 127, 1861.
Corbicula Cumingii, Deshayes, Prime, Cat. Corb. 4, 1863.
 Ann. Lyc. N. H. N. Y. viii, 217, f. 46—49, 1866. *Philippine Islands.*
- 30. C. cuneata**, Deshayes.
Cyrena cuneata, Jonas, Zeit. Malak. 186, 1844. Philippi, Abbild. Conch. ii, 77, pl. 1, f. 6, 1846.
Cyrena globulus, Jonas, in litt.
Corbicula incrassata, Deshayes, Proc. Zool. Lond. xxii, 342, 1854.
Corbicula cuneata, Deshayes, Brit. Mus. Cat. Conchif. 231, 1854. Prime, Cat. Corb. 3, 1863. Smith. Inst. Misc. Coll. Prime Monog. Corb. 6, f. 5, 1865. *Orinoco River, South America.*
- 31. C. Cyraenopsis**.
Cyclas Cyraenopsis, Valenciennes.
Cyclas, Encycl. Meth. pl. 301, f. 3, 1792. *Hab.—?*
- 32. C. Cyreniformis**, Prime, Proc. Zool. Lond. xxviii, 321, 1860.
 J. Conchyl. ix. 41, pl. ii. f. 5, 1861. *Hab.—?*

33. C. debilis, Deshayes.

Cyrena debilis, Gould, Proc. Soc. N. H. Bost. iii, 293, 1850.
U. S. Explor. Expedit. xii, 427, pl. xxxvi, f. 529, a. b.
1852.

Corbicula debilis, Deshayes, Brit. Mus. Cat. Conchif. 234,
1854. *Hunter River, New Holland.*

34. C. Delessertiana, Prime, Ann. Lyc. N. H. N. Y. ix, 1869. *Egypt and Smyrna.***35. C. difficilis**, Prime, Cat. Corb. 4, 1863.

Ann. Lyc. N. H. N. Y. 62, f. 7, 1864. *North Africa?*

36. C. ducalis, Prime.

Cyrena fluminea, Mousson, Philippi, Abbild. Conch. ii, 76,
pl. 1, f. 3, 1847. Moll. Java, 87, pl. xx, f. 3, 1848.

Corbicula ducalis, Prime, Proc. Soc. N. H. Bost. viii, 274,
1862. Prime, Cat. Corb. 4, 1863. Ann. Lyc. N. H.
N. Y. viii, 225, f. 58, 1866. *Java.*

37. C. episcopalis, Prime, Ann. Lyc. N. H. N. Y. ix, 1869.

Cambodia.

38. C. erosa, Prime, Proc. Ac. N. S. Phila. 126, 1861.

Prime, Cat. Corb. 3, 1863. Ann. Lyc. N. H. N. Y. viii,
213, f. 40, 1866. *Cambodia.*

39. C. fluminalis, Megerle.

Tellina fluminalis, Müller, Verm. ii, 205, 1774.

Venus fluminalis, Chemnitz, Martini et Chemnitz, vi, 319,
pl. xxx, f. 320, 1782.

Cyclas Bruguière, Encycl. Méth. pl. 301, f. 2, 1792.

Cyclas Euphratica, Lamarck, An. Mus. Hist. Nat. vii, 420,
1806.

Corbicula fluminalis, Megerle, Mag. Gesell. Naturf. Berlin, v,
1811.

Cyrena fuscata, var. Lamarck, Lam. An. v, 552, 1818.

Cyrena fluminalis, Bourguignat, Cat. Sauley. 79, 1852.

Corbicula fluminalis, Megerle, Brit. Mus. Cat. Conchif. 222,
1854. *River Euphrates.*

40. C. fluminea, Deshayes.

Tellina fluminea, Müller, Verm. ii. 206, 1774.

Venus fluminea, Chemnitz, Martini et Chemnitz, vi, 321, pl.
xxx, f. 322, 323, 1782.

Cyclas Chinensis, Lamarck, Ann. Mus. Hist. Nat. vii, 421,
1806.

Corbicula fluminea, Deshayes, Brit. Mus. Cat. Conchif. 226,
1854. Ann. Lyc. N. H. N. Y. viii, 60, f. 4, 1864.

China.

41. **C. fluviatilis**, Deshayes.
Tellina fluviatilis, Müller, Verm. ii, 206, 1774.
Corbicula fluviatilis, Deshayes, Brit. Mus. Cat. Conchif. 226,
 1854. *China*.
42. **C. fuscata**, Prime.
Cyclas, Bruguière, Encycl. Méth. 302, f. 2, 1792.
Cyrena fuscata, Lamarck (exclus. var.), Lam. An. v, 552,
 1818. *China*.
43. **C. gubernatoria**, Prime, Ann. Lyc. N. H. N. Y. ix, 1869.
Saigon, Cochin China.
44. **C. gracilis**, Prime, J. Conchyl. x, 389, pl. xiv, f. 7, 1862.
 Prime, Cat. Corb. 4, 1863. *Java*.
45. **C. imperialis**, Prime, Ann. Lyc. N. H. N. Y. ix, 1869.
Pondicherry, India.
46. **C. insularis**, Prime, Ann. Lyc. N. H. N. Y. viii, 414,
 1867. *Formosa*.
47. **C. inæquilateralis**, Prime, Proc. Ac. N. S. Phila. 128,
 1861.
 Prime, Cat. Corb. 4, 1863. Ann. Lyc. N. H. N. Y. viii,
 80, f. 30, 1864. *Africa*.
48. **C. Japonica**, Prime, Ann. Lyc. N. H. N. Y. viii, 68, f. 15,
 1864. *Japan*.
49. **C. Kirkii**, Prime, Ann. Lyc. N. H. N. Y. viii, 66, f. 12,
 1864. *Mozambique, Central Africa*.
50. **C. Lamarckiana**, Prime, Ann. Lyc. N. H. N. Y. viii, 69
 f. 16, 1864. *Laos Mountains, Cambodia*.
51. **C. Largillierti**, Deshayes.
Cyrena Largillierti, Philippi, Zeit. Malak. 163, 1844. Phi-
 lippi, Abbild. Conch. ii, 75, pl. 1, f. 1, 1847.
Corbicula Largillierti, Deshayes, Brit. Mus. Cat. Conchif.
 225, 1854. Prime, Cat. Corb. 3, 1863. Ann. Lyc. N.
 H. N. Y. viii, 78, f. 27, 1864. *China*.
52. **C. Larnaudieri**, Prime, Ann. Lyc. N. H. N. Y. vii, 480,
 1862. Prime, Cat. Corb. 3, 1863. Ann. Lyc. N. H.
 N. Y. viii, 415, f. 69, 1867. *Siam*.
53. **C. Leana**, Prime, Ann. Lyc. N. H. N. Y. viii, 68, f. 14,
 1864. *Japan*.
54. **C. leviuscula**, Prime, Cat. Corb. 3, 1863.
 Ann. Lyc. N. H. N. Y. viii, 64, f. 9, 1864.
Cochin China.

- 55. C. limosa**, Deshayes.
Tellina limosa, Maton, Trans. Linn. Soc. Lond. x, 325, pl. xxiv, f. 8—10, 1809.
Cyrena limosa, Gray, Ann. Phy. 2d ser. ix, 137, 1825.
Cyrena variegata, D'Orbigny, Mag. Zool. v, 44, 1835.
Cyclas variegata, D'Orbigny, D'Orb. Voy. 567, pl. 82, f. 14—16, 1846.
Cyclas limosa, D'Orbigny (error), Loc. sup. cit. pl. 82, f. 14—16, 1846.
Corbicula semisulcata, Deshayes, Proc. Zool. Lond. xxii, 343, 1854.
Corbicula limosa, Deshayes, Brit. Mus. Cat. Conchif. 231, 1854. Prime, Cat. Corb. 3, 1863. Smith. Inst. Misc. Coll. Prime, Monog. Corb. 5, f. 4, 1865.
Uruguay, S. America.
- 56. C. Linneana**, Prime, Ann. Lyc. N. H. N. Y. viii, 70, f. 17, 1864.
Laos Mountains, Cambodia.
- 57. C. lutea**, Morelet, Rev. Mag. Zool. 481, 1862.
 Ann. Lyc. N. H. N. Y. viii, 61, f. 6, 1864. China.
- 58. C. Lydigiana**, Prime, J. Conchyl. ix, 355, 1861.
 Loc. sup. cit. x, 388, pl. xiv, f. 8, 1862. Prime, Cat. Corb. 3, 1863. Ann. Lyc. N. H. N. Y. viii, 214, f. 41, 1866.
Siam.
- 59. C. Malaccana**, Deshayes, Proc. Zool. Lond. xxii, 343, 1854.
 Ann. Lyc. N. H. N. Y. viii, 65, f. 10, 1864. Malacca.
- 60. C. Manillensis**, Prime.
Cyrena Manillensis, Philippi, Zeit. Malak. 163, 1841.
Cyrena fluviatilis, Philippi, Abbild. Conch. ii, 77, pl. 1, f. 5, 1847.
Corbicula Manillensis, Prime, Proc. Ac. N. S. Phila. 271, 1860. Prime, Cat. Corb. 4, 1863. Manilla.
- 61. C. maxima**, Prime, Proc. Zool. Lond., xxviii, 321, 1860.
Hab.—?
- 62. C. mediocris**, Prime, Ann. Lyc. N. H. N. Y. vii, 481, 1862.
 Prime, Cat. Corb. 4, 1863. Ann. Lyc. N. H. N. Y. viii, 414, f. 68, 1867. India.
- 63. C. minor**, Prime, Proc. Ac. N. S. Phila. 127, 1861.
 Prime, Cat. Corb. 4, 1863. Ann. Lyc. N. H. N. Y. viii, 80, f. 29, 1864. New Holland.

64. **C. Moreletiana**, Prime, Ann. Lyc. N. H. N. Y. viii, 416, 1867. *Cambodia.*
65. **C. Moussoni**, Deshayes.
Cyrena orientalis, Lamarck, var. *Javanica*, Mousson, Moll. Java, 86, pl. xv, f. 2, 1849.
Corbicula Moussoni, Deshayes, Brit. Mus. Cat. Conchif. 227, 1854. *Java.*
66. **C. Mulleriana**, Prime, Ann. Lyc. N. H. N. Y. viii, 59, f. 3, 1864. *Fuh Chan River, China.*
67. **C. Nepeanensis**, Deshayes.
Cyrena Nepeanensis, Lesson, Voy. Coquille, ii, 428, pl. xiii, f. 14, 1820. *Now Holland.*
68. **C. nitens**, Deshayes.
Cyrena nitens, Philippi, Zeit. Malak. 163, 1844. Philippi, Abbild. Conch. ii, 76, pl. 1, f. 4, 1847.
Corbicula nitens, Deshayes, Brit. Mus. Cat. Conchif. 227, 1854. Prime, Cat. Corb. 3, 1863. *China.*
69. **C. obscura**, Deshayes, Proc. Zool. Lond. xxii, 342, 1854. *Hab.—?*
70. **C. obsoleta**, Deshayes, Proc. Zool. Lond. xxii, 343, 1854. J. Conchyl. ix, pl. 2, f. 4, 1861. Smith. Inst. Misc. Coll. Prime, Monog. Corb. 4, f. 3, 1865. *Uruguay.*
71. **C. occidentis**, Benson, Asiatic Journal. Brit. Mus. Cat. Conchif. 223, 1854. Prime, Cat. Corb. 4, 1863. Ann. Lyc. N.H. N. Y. viii, 220, f. 51, 1866. *Bengal, India.*
72. **C. orientalis**, Deshayes.
Cyrena orientalis, Lamarck (exclus. var.), Lam. An. v, 552, 1818. Delessert, Recueil pl. vii, f. 8, 1841.
Corbicula orientalis, Deshayes, Brit. Mus. Cat. Conchif. 227, 1854. *China.*
73. **C. ovalina**, Deshayes, Proc. Zool. Lond. xxii, 343, 1854. Brit. Mus. Cat. Conchif. 229, 1854. *New Holland.*
74. **C. ovalis**, Prime, Proc. Zool. Lond. xxviii, 321, 1860. J. Conchyl. ix, 42, pl. ii, f. 6, 1861. *Hab.—?*
75. **C. Paranensis**, Deshayes.
Cyrena Paranacensis, D'Orbigny, Mag. Zool. v, 44, 1835.
Cyclas Paranensis, D'Orbigny, D'Orb. Voy. 567, pl. 83, f. 23, 25, 1846.
Corbicula Paranensis, Deshayes, Brit. Mus. Cat. Conchif. 231, 1854. Prime, Cat. Corb. 3, 1863. Smith. Inst. Misc. Coll. Prime, Monog. Corb. 3, f. 2, 1865. *Parana River, S. America.*

76. **C. parvula**, Prime, Proc. Ac. N. S. Phil. 127, 1861.
 Prime, Cat. Corb. 4, 1863. Ann. Lyc. N. H. N. Y. viii,
 76, f. 25, 1864. *India.*
77. **C. pexplexa**, Prime, Monog. Corb. 75, f. 84, 1865.
 Smith. Inst. Misc. Coll. Prime Monog. Corb. 75, f. 84,
 1865. *S. America.*
78. **C. pexata**, Prime, Cat. Corb. 4, 1863. Ann. Lyc. N. H.
 N. Y. viii, 57, f. 1, 1864. *Fuh Chan River, China.*
79. **C. Pfeifferiana**, Prime, Ann. Lyc. N. H. N. Y. viii, 417,
 1867. *China.*
80. **C. Pisidiiformis**, Prime, Ann. Lyc. N. H. N. Y. viii, 215,
 f. 42, 1866. *Siam.*
81. **C. Primeana**, Morelet (*non Mörch*) Rev. Mag. Zool. 480,
 1862. Ann. Lyc. N. H. N. Y. viii, 58, f. 2, 1864.
Che Fou River, China.
82. **C. prolongata**, Prime, J. Conchyl. ix, 356, 1861.
 Loc. sup. cit. x, 389, pl. xiv, f. 6, 1862. Prime, Cat. Corb.
 4, 1863. *Eastern Australia.*
83. **C. pulchella**, Deshayes.
Cyrena pulchella, Mousson, Moll. Java, 88, pl. xv, f. 4,
 1849.
Corbicula pulchella, Deshayes, Brit. Mus. Cat. Conchif. 228,
 1854. Prime Cat. Corb. 4, 1863. *Java.*
84. **C. pullata**, Deshayes.
Cyrena pullata, Philippi, Abbild. Conch. iii, 110, 1849.
Corbicula pullata, Deshayes, Brit. Mus. Cat. Conchif. 232,
 1854. *Sumatra.*
85. **C. purpurea**, Prime, Cat. Corb. 4, 1863.
 Ann. Lyc. N. H. N. Y. viii, 77, f. 26, 1864. *Tigris River.*
86. **C. pusilla**, Deshayes.
Cyrena pusilla, Parreys, Philippi, Abbild. Conch. ii, 78, pl.
 1, f. 7, 1847.
Corbicula pusilla, Deshayes, Brit. Mus. Cat. Conchif. 221,
 1854. Prime, Cat. Corb. 4, 1863. *River Nile.*
87. **C. Quilonensis**, Benson, 1860. Ann. Lyc. N. H. N. Y.,
 viii, 224, f. 56, 1866. *Quilon, India.*
88. **C. radiata**, Deshayes.
Cyrena radiata, Parreys. Philippi, Abbild. ii, 78, pl. 1, f. 8,
 1847.
Corbicula radiata, Deshayes, Brit. Mus. Cat. Conchif. 222,
 1854. Prime, Cat. Corb. 4, 1863. *River Nile.*

- 89. *C. recurvata*, Deshayes.**
Cyrena recurvata, Valenciennes. Mag. Zool. 11, pl. 119, f. 2, 1835.
Cyrena Gaudichaudii, Valenciennes, (error). Loc. sup. cit. pl. 119, f. 2, 1835.
Corbicula recurvata, Deshayes, Brit. Mus. Cat. Conchif. 226, 1854. *China.*
- 90. *C. regularis*, Prime, Proc. Zool. Lond. xxviii, 321, 1860.**
 Prime Cat. Corb. 6, 1863. *Deccan, India.*
- 91. *C. rhomboidea*, Prime, Proc. Ac. N. S. Phil. 127, 1861.**
 Prime, Cat. Corb. 3, 1863. Ann. Lyc. N. H. N. Y. viii, 66, f. 11, 1864. *Malacca.*
- 92. *C. rivalis*, Deshayes.**
Cyrena rivalis, v. d. Busch. Philippi, Abbild. iii, 110, pl. 3, f. 5, 1849.
Corbicula rivalis, Deshayes, Brit. Mus. Cat. Conchif. 228, 1854. Prime, Cat. Corb. 4, 1863. *Java.*
- 93. *C. rotunda*, Prime, Proc. Ac. N. S. Phila. 80, 1860.**
 Prime. Cat. Corb 3, 1863. Smith Inst. Misc. Coll., Prime. Monog. Corb. 5, 1865. *Guyana S. America.*
- 94. *C. Sayana*, Prime, Ann. Lyc. N. H. N. Y. viii, 71, f. 19, 1864.**
Philippine Islands.
- 95. *C. solidula*, Prime.**
 Proc. Ac. N. S. Phila. 127, 1861. Prime, Cat. Corb. 4, 1863. Ann. Lyc. N. H. N. Y. viii, 81, f. 31, 1864. *Hab.—?*
- 96. *C. Stimpsonianana*, Prime.**
 Ann. Lyc. N. H. N. Y. viii, 222, f. 54, 1866. *Hab.—?*
- 97. *C. striatella*, Deshayes, Proc. Zool. Lond. xxii, 344, 1854.**
Corbicula violacea, Prime. Proc. Ac. N. S. Phila. 128, 1861. Prime, Cat. Corb. 3, 1863.
Corbicula striatella, Deshayes. Prime, Cat. Corb. 3, 1863. Ann. Lyc. N. H. N. Y. viii, 74, f. 22, 1864. *India.*
- 98. *C. subradiata*, Prime.**
Cyrena subradiata, Kurr in litt.
Corbicula subradiata, Prime. Proc. Ac. N. S. Phila. 127, 1861. Prime, Cat. Corb. 4, 1863. Ann. Lyc. N. H. N. Y. viii, 75, f. 23, 1864. *India.*
- 99. *C. sulcatina*, Deshayes, Proc. Zool. Lond. xxii, 345, 1854.**
 Ann. Lyc. N. H. N. Y. viii, 79, f. 28, 1864. *China.*

- 100. *C. tenuistriata***, Prime, Proc. Zool. Lond. xxviii, 322, 1860.
J. Conchyl. ix, 40, pl. ii, f. 3, 1861. *Hab.*—?
- 101. *C. triangularis***, Deshayes, Proc. Zool. Lond. xxii, 345, 1854.
Prime, Cat. Corb. 4, 1863. Ann. Lyc. N. H. N. Y. viii, 215, f. 43, 1866. *Hab.*—?
- 102. *C. trigona***, Deshayes, Proc. Zool. Lond. xxii, 344, 1854.
Prime, Cat. 4, 1863. Ann. Lyc. N. H. N. Y. viii, 221, f. 53, 1866. *India.*
- 103. *C. trigonella***, Deshayes.
Cyrena trigonella, Lamarck. Lam. An. v, 552, 1818.
Corbicula trigonella, Deshayes. Brit. Mus. Cat. Conchif. 234, 1854. *Hab.*—?
- 104. *C. tumida***, Deshayes, Proc. Zool. Lond. xxii, 343, 1854.
Prime, Cat. Corb. 4, 1863. Ann. Lyc. N. H. N. Y. viii, 219, f. 50, 1866. *Borneo.*
- 105. *C. venustula***, Prime, Cat. Corb. 4, 1863.
Ann. Lyc. N. H. N. Y. viii, 73, f. 21, 1864. *Philippine Islands.*
- 106. *C. vulgaris***, Prime, Anc. Lyc. N. H. N. Y. viii, 223, f. 25, 1866. *Hab.*—?
- 107. *C. Woodiana***, Deshayes.
Cyrena Woodiana, Lea, Trans. Amer. Phil. Soc. Phila. v, 110, pl. xviii, f. 55, 1832.
Cyrena similis, Gray, Griffith, An. Kingd. xii, pl. xx, f. 2, 1834.
Corbicula grandis, Deshayes, Proc. Zool. xxii, 344, 1854.
Corbicula similis, Deshayes, Brit. Mus. Cat. Conchif. 225, 1854.
Corbicula Woodiana, Deshayes, Loc. sup. cit. 225, 1854.
Corbicula Primeana, Mörch, (*non Morelet*), J Conchyl. ix, 347, 1861.
Corbicula Woodiana, Deshayes, Prime, Cat. Corb. 3, 1863.
Ann. Lyc. N. H. N. Y. viii, 226, f. 59, 1866. *China.*

TO BE EXCLUDED.

Corb. Chilensis, Prime. = *Pisid. Chilense*.
Corb. grandis, Deshayes. = *Corb. Woodiana*.
Corb. hammalis, Férussac. = Undescribed.
Corb. incrassata, Deshayes. = *Corb. cuneata*.

Corb. notata, Prime. = *Corb. Cumingii*.
Corb. Primeana, Mörch. (non Morelet.) = *Corb. Woodiana*.
Corb. semisulcata, Deshayes. = *Corb. limosa*.
Corb. similis, Deshayes. = *Corb. Woodiana*.
Corb. squalida, Deshayes. = *Corb. Cumingii*.
Corb. variegata, Deshayes. = *Corb. limosa*.
Corb. ventricosa, Prime. = *Corb. convexa*.
Corb. violacea, Prime. = *Corb. striatella*.

GENUS **BATISSA**, Gray.

Ann. Mag. N. H. n. ser. ix, 34, 1852.

Cyprina, *Cyclas*, Bruguière, Encycl. Méth. 1792.

Cyrena, Lamarck, Lam. An. v, 553, 1818.

Venus, Gray, Wood. Index, Test. Suppl. pl. ii, f. 13, 1828.

1. **B. atrata**, Deshayes, Proc. Zool. Lond. xxii, 14, 1854.
Hab.—?
2. **B. Australis**, Deshayes, Proc. Zool. Lond. xxii, 346, 1854.
Australia.
2. **B. Childrenæ**, Deshayes.
Venus Childreni, Gray, Wood, Index Test. Suppl. pl. ii, f. 13, 1828.
Cyrena Childrenæ, Gray, Ann. Phil. 2d ser. 117, 1825.
Batissa Childrenæ, Deshayes, Brit. Mus. Cat. Conchif. 237, 1854. Prime, Cat. Corb. 5, 1863. *Philippine Islands*.
4. **B. compressa**, Prime, Proc. Zool. Lond. xxviii, 320, 1860.
Borneo.
5. **B. Corbiculoides**, Deshayes, Proc. Zool. Lond. xxii, 14, 1854.
New Guinea.
6. **B. elegans**, Prime, J. Conchyl. x, 385, pl. xiii, f. 1, 1862.
Prime, Cat. Corb. 5, 1863. *Hab.*—?
7. **B. elongata**, Prime, Proc. Zool. Lond. xxviii, 320, 1860.
Act. Soc. Linn. Bord. xxiv, 324, 1863. *New Caledonia*.
8. **B. fortis**, Prime, Proc. Zool. Lond. xxviii, 320, 1860.
Act. Soc. Linn. Bord. xxiv, 324 1863. *New Caledonia*.
9. **B. fuscata**, Prime, Proc. Zool. Lond. xxviii, 319, 1860.
Hab.—?
10. **B. gigantea**, Prime, Ann. Lyc. N. H. N. Y. vii, 112, 1859.
Hab.—?
11. **B. gracilis**, Prime, Proc. Zool. Lond. xxviii, 319, 1860.
J. Conchyl. ix, 38, pl. ii, f. 1, 1861. *Hab.*—?

12. **B. humerosa**, Deshayes, Proc. Zool. Lond. xxii, 14, 1854.
New Guinea.
13. **B. inflata**, Prime, Proc. Zool. Lond. xxviii, 320, 1860.
Nicobar Islands.
14. **B. insignis**, Deshayes, Proc. Zool. Lond. xxii, 13, 1854.
Prime, Cat. Corb. 5, 1854. Calamang, Luzon Island.
15. **B. Jayana**, Deshayes.
Cyrena Jayensis, Lea, Trans. Amer. Phil. Soc. Phila. v, 108,
pl. xvii, f. 52, 1832.
Cyrena violacea, Lamarck (var. *Javanica*), Mousson, Moll.
Java, 88, pl. xv, f. 1, 1849.
Batissa Jayana, Deshayes, Brit. Mus. Cat. Conchif. 237,
1854.
Batissa sphaericula, Prime, Proc. Zool. Lond. 1862.
Prime, Cat. Corb. 5, 1863. Sumatra?—Java.
16. **B. Keraudrenia**, Deshayes.
Cyrena Keraudrenia, Lesson, Voy. Coquille, 429, pl. xi, f. 3,
1829.
Batissa Keraudrenia, Deshayes, Brit. Mus. Cat. Conchif.
236, 1854. Prime, Cat. Corb. 5, 1863. Waigiou.
17. **B. lenticularis**, Deshayes, Proc. Zool. Lond. xxii, 14,
1854.
Prime, Cat. Corb. 5, 1863. Philippine Islands.
18. **B. megadesma**, Deshayes, Proc. Zool. Lond. xxii, 14,
1854. Hab.—?
19. **B. minor**, Prime, Proc. Zool. Lond. xxviii, 320, 1860.
J. Conchyl. xiii, 207, 1865. Feejee Islands.
20. **B. obesa**, Deshayes.
Cyrena obesa, Hinds, Ann. Mag. N. H. n. ser. x, 81, 1842.
Voy. Sulph. 66, pl. xxi, f. 6, 1845.
Batissa obesa, Deshayes, Brit. Mus. Cat. Conchif. 238, 1854.
Prime, Cat. Corb. 5, 1863. Feejee Islands.
21. **B. Philippinarum**, Hanley.
Cyrena Philippinarum, Hanley, Proc. Zool. Lond. xii, 159,
1844. Hanley, Descrip. Cat. pl. xiv, f. 1844.
Philippine Islands.
22. **B. ponderosa**, Prime, Proc. Soc. N. H. Bost. viii, 273,
1862.
Prime, Cat. Corb. 5, 1863. Ann. Lyc. N. H. N. Y. viii,
231, f. 62, 1866. New Caledonia.

23. **B. producta**, Deshayes, Proc. Zool. Lond. xxii, 13, 1854.
J. Conchyl. xiii, 208, 1865. *Philippine Islands.*
24. **B. rotundata**, Deshayes.
Cyrena rotundata, Lea, Trans. Amer. Phil. Soc. Phila. v, 107,
pl. xvii, f. 51, 1832. Hanley, Descrip. Cat. 93, pl. xiv,
f. 55, 1844. *Java.*
25. **B. similis**, Prime, Ann. Lyc. N. H. N. Y. vii. 112, 1859.
Prime, Cat. Corb. 5, 1863. Ann. Lyc. N. H. N. Y. viii,
229, f. 60, 1866. *Nicobar.*
26. **B. solidula**, Prime, Proc. Zool. Lond.
Prime, Cat. Corb. 5, 1863. Ann. Lyc. N. H. N. Y. viii,
83, f. 32, 1864. *Hab.—?*
27. **B. tenebrosa**, Deshayes.
Cyrena tenebrosa, Hinds, Ann. Mag. N. H. n. ser. x, 81,
1842. Hanley, Descrip. Cat. pl. xv, f. 2, 1844.
Cyrena regulata, Gassies, J. Conchyl. vii, 372, 1858.
Batissa tenebrosa, Deshayes, Brit. Mus. Cat. Conchif. 238,
1854. Prime, Cat. Corb. 5, 1863. *Feejee Islands.*
28. **B. triquetra**, Deshayes, Proc. Zool. Lond. xxii, 13, 1854.
Prime, Cat. Corb. 5, 1863. Act. Soc. Linn. Bord. xxiv,
323, pl. viii, f. 17, 1863. J. Conchyl. xiii, 207, 1865.
Ann. Lyc. N. H. N. Y. viii, 230, f. 61, 1866.
Philippine Islands.
29. **B. unioniformis**, Prime, Proc. Zool. Lond. xxviii, 319,
1860.
Prime, Cat. Corb. 5, 1863. *Feejee Islands.*
30. **B. violacea**, Deshayes.
Cyclas, Encycl. Méth. pl. 301, f. 1, a-b.
Cyclas violacea, Lamarck, Ann. Mus. Hist. Nat. vii, 421,
1806.
Cyrena violacea, Lamarck, Lam. An. v, 553, 1818. Deles-
sert, Recueil, pl. vii, f. 5, 1841.
Batissa violacea, Deshayes, Brit. Mus. Cat. Conchif. 238,
1854. *The Islands of the Pacific.*

TO BE EXCLUDED.

Batissa eximia, Deshayes, = *Cyrena eximia*.
Batissa impressa, H. and A. Adams, = *Cyrena eximia*.
Batissa sphæricula, Prime, = *B. Jayana*.

GENUS **VELORITA**, Gray.

Griffith, An. Kingd. xii, pl. xxxi, f. 5, 1834.

Cyrena, Gray, Ann. Phy. n. ser. ix, 136, 1825.

Venus, Gray, Wood, Index, Test. Suppl. pl. ii, f. 14, 1828.

1. **V. Cochinchensis**, Hanley.

Cyrena Cochinchensis, Hanley, Proc. Zool. Lond. xxvi, 543, 1858.

Cyrena Corbiculiformis, Prime, Proc. Ac. N. S. Phila. 80, 1860. Prime, Cat. Corb. 6, 1863.

Velorita Cochinchensis, Hanley, Ann. Lyc. N. H. N. Y. viii, 236, f. 66, 1866. *Madras Coast, India.*

2. **V. Cyprinoides**, Gray.

Cyrena Cyprinoides, Gray, Ann. Phy. n. ser. ix, 136, 1825.

Venus Cyprinoides, Gray, Wood, Index, Test. Suppl. pl. ii, f. 14, 1828.

Velorita Cyprinoides, Gray, Griffith, An. Kingd. xii, pl. xxxi, f. 5, 1834. *Philippine Islands?*

3. **V. parvula**, Prime, Ann. Lyc. N. H. N. Y. viii, 418, 1867. *Hab.—?*GENUS **CYRENA**, Lamarck.

Lam. An. v, 551, 1818.

Venus, Chemnitz, Martini et Chemnitz, vi, 333, pl. xxxii, f. 336, 1782.

Cyclas, Bruguière, Encycl. Méth. pl. 301, 302, 1792.

Cyanocyclas, Férussac, Dict. Sci. Nat. xii, 1818.

Polymesoda, Rafinesque, Ann. Gen. Sci. Phys. et Nat. v, 219, 1820.

Mactra, Brognart, Mem. Vincent, 81, pl. v, f. 8, 1823.

Geloina, Gray, Synop. Brit. Mus. 75, 1844.

1. **C. acuta**, Prime, J. Conchyl. ix, 355, 1861.

Loc. sup. cit. x, 387, pl. xiv, f. 1, 1862. Prime, Cat. Corb. 5, 1863. Smith. Inst. Misc. Coll. Prime, Monog. Corb. 22, f. 17, 1865. *Central America.*

2. **C. affinis**, Deshayes, Proc. Zool. Lond. xxii, 16, 1854.

Australia.

3. **C. anomala**, Deshayes, Proc. Zool. Lond. xxii, 21, 1854.

Cyrena Peruviana, Deshayes, Brit. Mus. Cat. Conchif. 259, 1854.

Cyrena anomala, Deshayes, Prime, Cat. Corb. 6, 1863, Smith. Inst. Misc. Coll. Prime, Monog. Corb. 30, f. 24, 1865. *Peru.*

4. **C. arctata**, Deshayes, Proc. Zool. Lond. xxii, 20, 1854.
 Prime, Cat. Corb. 5, 1863. Smith. Inst. Misc. Coll.
 Prime, Monog. Corb. 16, f. 10, 1865.
Lake Maracaibo, S. America.
5. **C. Bengalensis**, Lamarck.
Venus Bengalensis, Lister, List. Hist. An. pl. 345, f. 182.
Cyrena Bengalensis, Lamarck, An. v, 554, 1818.
Cyclas Bengalensis, Férussac, Cat. 20, 1837.
Cyrena turgida, Lea, Trans. Amer. Phil. Soc. Phila. v, 109,
 pl. xviii, f. 51, 1832.
Cyrena Bengalensis, Lamarck, Delessert Recueil, pl. vii, f. 6,
 a, d, 1841.
Cyrena turgida, Lea, Hanley, Descrip. Cat. 93, pl. xiv, f. 50,
 1844.
Cyrena Bengalensis, Lamarck, Prime, Cat. Corb. 6, 1865.
Bengal, India.
6. **C. Bernardana**, Prime, Proc. Ac. N. S. Phila. 126,
 1861.
 Prime, Cat. Corb. 6, 1863. Ann. Lyc. N. H. N. Y. viii,
 83, f. 33, 1864.
New Caledonia.
7. **C. Boliviana**, Philippi, Zeit. Malak. 70, 1851.
 Smith. Inst. Misc. Coll., Prime Monog. Corb. 27, 1865.
Bolivia.
8. **C. brunnea**, Prime, Proc. Zool. Lond. xxviii, 321, 1860.
Hab.—?
9. **C. Buschii**, Philippi, Abbild. Conch. iii, 78, pl. ii, f. 2,
 1849.
 Brit. Mus. Cat. Conchif. 243, 1854. *China.*
10. **C. Californica**, Prime.
Cyrena subquadrata, Deshayes (preoc.), Proc. Zool. Lond.
 xxii, 21, 1854.
Cyrena Californica, Prime, Proc. Ac. N. S. Phila. 276, 1860.
 Smith. Inst. Misc. Coll., Prime Monog. Corb. 24, 1865.
California.
11. **C. Caroliniensis**, Lamarck.
Cyclas Caroliniensis, Bosc., Féruss. Méth. Conchyl. 1807.
Cyclas Caroliniana, Bosc., Hist. Nat. Coq. iii, 37, pl. xxiii,
 f. 4, 1810.
Cyrena Caroliniensis, Lamarck, Lam. An. v, 558, 1818. Say,
 pl. lxii. Brit. Mus. Cat. Conchif. 254, 1854. Prime, Cat.
 Corb. 5, 1863. Smith. Inst. Misc. Coll., Prime Monog.
 Corb. 12, f. 6, 1865. *Alabama, Florida and Georgia.*

12. C. Ceylonica, Lamarck.

Venus Ceylonica, Chemnitz, Martini et Chemnitz, vi, 333,
pl. xxxii. f. 336, 1782.

Venus coaxans, Gmelin, Syst. Nat. 3278, f. 336, 1788.

Cyclas, Bruguière, Encycl. Méth. pl. 302, f. 4, a, b, 1792.

Cyclas Zeylanica, Lamarck, Ann. Mus. Hist. Nat. vii, 420,
1806.

Cyrena Zeylanica, Lamarck, An. v. 554, 1818. Prime Cat.
Corb. 6, 1863. *Ceylon*.

13. C. Chilina, Prime, Ann. Lyc. N. H. N. Y. viii, 418, 1867.
Chili.**14. C. colorata**, Prime, Cat. Corb. 5, 1863.

Smith. Inst. Misc. Coll., Prime Monog. Corb. 30, f. 23,
1865. *Island of New Providence, W. I.*

15. C. compta, Deshayes, Proc. Zool. Lond. xxii, 18, 1854.
*Hab.—?***16. C. conjuncta**, Deshayes, Proc. Zool. Lond. xxii, 15, 1854.
*Hab.—?***17. C. Cubensis**, Prime.

Cyclas maritima, D'Orbigny, Sagra, Cuba, Moll. ii, 280, pl.
xxi, f. 47—50, 1853.

Cyrena Cubensis, Prime, Smith. Inst. Misc. Coll., Prime Mo-
nog. Corb. 29, 1865. *Cuba*.

18. C. Cumingii, Deshayes, Proc. Zool. Lond. xxii, 22,
1854.

Smith. Inst. Misc. Coll., Prime Monog. Corb. 25, 1865.
Central America.

19. C. Cypriniformis, Prime, Cat. Corb. 6, 1863.

Ann. Lyc. N. H. N. Y. viii, 88, f. 37, 1864.
Northern Australia.

20. C. Cyprinoides, Quoy, Voy. Astrolabe, iii, 513, pl.
lxxxii, f. 1—3, 1834. *New Guinea*.**22. C. decipiens**, Deshayes, Proc. Zool. Lond. xxii, 17, 1854.
*Hab.—?***22. C. divaricata**, Deshayes, Proc. Zool. Lond. xxii, 17, 1854.
New Guinea.**23. C. dura**, Deshayes, Proc. Zool. Lond. xxii, 20, 1854.
*Hab.—?***24. C. Essingtonensis**, Deshayes, Proc. Zool. Lond. xxii, 19,
1854. *Port Essington, Australia*.

25. **C. eximia**, Dunker, Zeit. Malak. 51, 1852.
Cyrena impressa, Deshayes, Proc. Zool. Lond. xxii, 18, 1854.
Batissa eximia, Deshayes, Brit. Mus. Cat. Conchif., 235, 1854.
Cyrena eximia, Dunker, Nov. Conch. livraison 8, p. 8, pl. xxiv, 1857.
Batissa impressa, H. and A. Adams, Gen. Rec. Moll. ii, 448, 1858.
Cyrena eximia, Dunker, Prime Cat. Corb. 6, 1863. *Java.*
26. **C. expansa**, Mousson, Moll. Java, 89, pl. xiv. 1849.
 Brit. Mus. Cat. Conchif. 243, 1854. *Java.*
27. **C. exquisita**, Prime, Ann. Lyc. N. H. N. Y. viii, 417, 1867.
Panama, New Grenada.
28. **C. fallax**, Deshayes, Proc. Zool. Lond. xxii, 15, 1854.
 Prime, Cat. Corb. 6, 1863.
Australia—Philippine Islands?
29. **C. flava**, Prime, Proc. Zool. Lond. xxviii, 320, 1860.
Hab.—?
30. **C. Floridana**, Conrad, Proc. Ac. N. S. Phila. iii, 23, pl. 1, f. 1, 1846.
 Brit. Mus. Cat. Conchif. 257, 1854. Prime, Cat. Corb. 5, 1863. Smith. Inst. Misc. Coll., Prime Monog. Corb. 28, f. 21, 1865.
Tampa Bay, Florida.
31. **C. Fontaineii**, Carpenter.
Cyclas Fontaineii, D'Orbigny, Voy. 569, pl. 83, f. 14, 15, 1844.
Cyrena Fontaineii, Carpenter, Carp. Mazat. Shells, 114, 1857. Prime, Cat. Corb. 6, 1863. Smith. Inst. Misc. Coll., Prime Monog. Corb. 21, f. 16, 1865.
South America.
32. **C. fortis**, Prime, J. Conchyl. ix, 355, 1861.
 Loc. sup. cit. x, 387, pl. xiv, f. 2, 1862. Prime, Cat. Corb. 5, 1863. Smith. Inst. Misc. Coll., Prime Monog. Corb. 17, f. 11, 1865.
Ecuador, S. America.
33. **C. Galathea**, Rheinhardt, Mörch, Cat. Kierulf, 32, pl. ii, 1850. Prime, Cat. Corb. 6, 1863. *Nicobar Islands.*
34. **C. germana**, Prime, Ann. Lyc. N. H. N. Y. viii, 417, 1867.
Tampico, Mexico.
35. **C. incerta**, Deshayes, Proc. Zool. Lond. xxii, 19, 1854.
Hab.—?

36. *C. inflata*, Philippi, Zeit. Malak. 71, 1851.
Smith. Inst. Misc. Coll., Prime Monog. Corb. 26, 1865.
Costa Rica.
37. *C. inquinata*, Deshayes, Proc. Zool. Lond. xxii. 15, 1854.
China.
38. *C. insignis*, Deshayes, Proc. Zool. Lond. xxii, 20, 1854.
I. Conchyl. ix, 39, pl. ii, f. 2, 1861. Smith. Inst. Misc.
Coll., Prime Monog. Corb. 15, f. 9, 1865. *California.*
39. *C. isocardioides*, Deshayes, Proc. Zool. Lond. xxii, 22,
1854.
Smith. Inst. Misc. Coll., Prime Monog. Corb. 25, 1865.
Western Columbia, S. America.
40. *C. Jukesii*, Deshayes, Proc. Zool. Lond. xxii, 19, 1854.
Cape Upstart, Northern Australia.
41. *C. lævis*, Prime, Proc. Ac. N. S. Phila. 125, 1861.
Prime, Cat. Corb. 6, 1863. Ann. Lyc. N. H. N. Y. viii,
233, f. 64, 1866. *Borneo.*
42. *C. lauta*, Deshayes, Proc. Zool. Lond. xxii, 15, 1854.
Prime, Cat. Corb. 7, 1863. *Hab.—?*
43. *C. mactriformis*, Prime.
Cyrena mactroides, Deshayes (preoc.), Proc. Zool. Lond. xxii,
17, 1854.
Cyrena mactriformis, Prime, Proc. Ac. N. S. Phila. 281, 1860.
Hab.—?
44. *C. maritima*, C. B. Adams, Ann. Lyc. N. H. N. Y. v,
499, 1852.
Proc. Zool. Lond. xxii, 345, 1854. Brit. Mus. Cat. Con-
chif. 258, 1854. Prime, Cat. Corb. 5, 1863. Smith.
Inst. Misc. Coll., Prime Monog. Corb. 27, f. 20, 1865.
Panama.
45. *C. Mexicana*, Sowerby, Zool. Jour. 364, 1829.
Cyrena fragilis, Deshayes, Mus. Cuming.
Cyrena æquilateralis, Deshayes, Proc. Zool. Lond. xxii, 20,
1854.
Cyrena varians, Carpenter, in litt.
Cyrena mexicana, Sowerby, Brit. Mus. Cat. Conchif. 260,
1854. (pars), Carp. Mazat. Shells, 115, 1857. Prime,
Cat. Corb. 5, 1863. Smith. Inst. Misc. Coll., Prime
Monog. Corb. 22, f. 18, 1865. *Mazatlan and Panama.*
46. *C. Morchiana*, Prime, Ann. Lyc. N. H. N. Y. viii, 232,
f. 63, 1866. *Hab.—?*

47. C. Nicaraguana, Prime.

Cyrena solida, Philippi, (preoc.), Philippi, Abbild. Conch. ii, 78, pl. 1, f. 9, 1847. Brit. Mus. Cat. Conchif. 254, 1854.
Prime, Cat. Corb. 5, 1863. Smith. Inst. Misc. Coll.,
Prime Monog. Corb. 14, f. 8, 1865.

Nicaragua and Balize.

48. C. nitida, Deshayes, Proc. Zool. Lond. xxii, 23, 1854.

Prime, Cat. Corb. 6, 1863.

Borneo.

49. C. nitidula, Deshayes, Proc. Zool. Lond. xxii, 23, 1854.

Smith. Inst. Misc. Coll., Prime Monog. Corb. 20, 1865.

South America ?

50. C. notabilis, Deshayes, Proc. Zool. Lond. xxii, 21, 1854.

Smith. Inst. Misc. Coll., Prime Monog. Corb. 28, 1865.

Peru.

51. C. oblonga, Quoy, Voy. Astrolabe, iii, 517, pl. 82, f. 6-8, 1834.

Brit. Mus. Cat. Conchif. 257, 1854.

Vanikoro.

52. C. obscura, Prime, Proc. Zool. Lond. xxviii, 321, 1860.

Smith. Inst. Misc. Coll., Prime Monog. Corb. 15, 1865.

South America.

53. C. olivacea, Carpenter.

Cyrena Fontaineii, Philippi, Zeit. Malak. 70, 1851. Brit. Mus. Cat. Conchif. 253, 1854.

Cyrena olivacea, Carpenter, Mazat. Shells, 114, 1857. Prime, Cat. Corb. 5, 1863. Smith. Inst. Misc. Coll., Prime Monog. Corb. 17, f. 12, 1865.

Mazatlan.

54. C. oviformis, Deshayes, Proc. Zool. Lond. xxii, 16, 1854.

Prime, Cat. Corb. 6, 1863.

Port Essington, Australia.

55. C. pallida, Deshayes, Proc. Zool. Lond. xxii, 17, 1854.

Hab.—?

56. C. Panamensis, Prime.

Cyrena inflata, Deshayes (preoc.), Proc. Zool. Lond. xxii, 23, 1854.

Cyrena Panamensis, Prime, Smith. Inst. Misc. Coll., Prime Monog. Corb. 24, 1865.

Panama.

57. C. Papuana, Lesson, Mag. Zool. pl. xi, 1832.

Prime, Cat. Corb. 6, 1865.

New Guinea and Waigion.

58. C. placens, Hanley, Proc. Zool. Lond. xii, 160, 1844.

Hanley, Descrip. Cat. pl. xiv, f. 52, 1844. Brit. Mus. Cat. Conchif. 252, 1854. Smith. Inst. Misc. Coll., Prime Monog. Corb. 20, 1865.

Honduras.

59. **C. placida**, Deshayes, Proc. Zool. Lond. xxii, 19, 1854.
Prime Cat. Corb. 7, 1863. *Port Curtis, South Australia.*
60. **C. ponderosa**, Prime, Proc. Ac. N. S. Phila. 80, 1860.
Ann. Lyc. N. H. N. Y. viii, 87, f. 36, 1864.
Philippine Islands.
61. **C. proxima**, Prime, Cat. Corb. 6, 1863.
Ann. Lyc. N. H. N. Y. viii, 85, f. 34, 1864. *Siam.*
62. **C. pullastra**, Mörch, Malak. Bl. vii, 194, 1860.
Smith. Inst. Misc. Coll., Prime Monog. Corb. 26, 1865.
Nicaragua.
63. **C. radiata**, Hanley, Proc. Zool. Lond. xii, 159, 1844.
Brit. Mus. Cat. Conchif. 254, 1854. Prime, Cat. Corb. 5.
1863. Smith. Inst. Misc. Coll., Prime Monog. Corb.
13, f. 7, 1865. *Nicaragua.*
64. **C. Recluzii**, Prime.
Cyrena inflata, Deshayes (preoc.), J. Conchyl. iv. 251, pl. vii,
f. 9, 1853.
Cyrena Recluzii, Prime, Smith. Inst. Misc. Coll., Prime Mo-
nog. Corb. 24, f. 19, 1865. *Central America.*
65. **C. regularis**, Prime, Proc. Ac. N. S. Phila. 136, 1861.
Prime, Cat. Corb. 6, 1863. Ann. Lyc. N. H. N. Y. viii,
90, f. 38, 1864. *Hab.—?*
66. **C. salmacida**, Morelet, Test. Nov. 26, 1851.
Brit. Mus. Cat. Conchif. 259, 1854. Ann. Lyc. N. H. N.
Y. vii, 314, pl. vi, f. 1, 1861. Smith. Inst. Misc. Coll.,
Prime Monog. Corb. 29, f. 22, 1865. *Yucatan.*
67. **C. Siamica**, Prime, Proc. Ac. N. S. Phila. 126, 1861.
Prime, Cat. Corb. 6, 1863. Ann. Lyc. N. H. N. Y. viii,
86, f. 35, 1864. *Siam.*
68. **C. similis**, Deshayes, Proc. Zool. Lond. xxii, 16, 1854.
Prime, Cat. Corb. 6, 1863. *Borneo.*
69. **C. sphærica**, Prime, J. Conchyl. ix, 354, 1861.
Loc. sup. cit. x, 386, pl. xiii, f. 2, 1862. Prime, Cat. Corb.
7, 1863. *Hab.—?*
70. **C. sinuosa**, Deshayes.
Cyrena Zeylanica, Mousson, Moll. Java, 89, pl. xii, 1849.
Cyrena sinuosa, Deshayes, Proc. Zool. Lond. xxii, 18, 1854.
Prime, Cat. Corb. 6, 1863. *Java.*

71. **C. sordida**, Hanley, Proc. Zool. Lond. xii, 159, 1844.
Hanley, Descrip. Cat. pl. xiv, f. 51, 1844. Brit. Mus. Cat.
Conchif. 255, 1854. Smith. Inst. Misc. Coll., Prime
Monog. Corb. 13, 1865. *Central America*.
72. **C. sublobata**, Deshayes, Proc. Zool. Lond. xxii, 18, 1854.
Cyrena Caledonica, Gassies, J. Conchyl. vi, 277, 1857.
" *sublobata*, Deshayes, Act. Soc. Linn. Bord. xxiv,
322, pl. viii, f. 16, 1863. Prime, Cat. Corb. 5, 1863.
New Caledonia.
73. **C. suborbicularis**, v. d. Busch, Philippi. Abbild. Conch.
iii, 77, pl. ii, f. 1, 1849. Brit. Mus. Cat. Conchif, 251,
1854. *Manilla*.
74. **C. Sumatrensis**, Sowerby, Gen. Shells, 1, 1820-24.
Philippi. Abbild. Conch. iii, 109, pl. iii, f. 4, 1849. Brit.
Mus. Cat. Conchif. 242, 1854. Prime, Cat. Corb. 6,
1863. *Sumatra*.
75. **C. Tennentii**, Hanley, Proc. Zool. Lond. xxv, 23, 1858.
Ceylon.
76. **C. triangula**, v. d. Busch, Philippi. Abbild. Conch. iii,
78, pl. ii, f. 3, 1849.
Cyrena altilis, Gould, J. N. H. Bost. vi, 400, pl. xvi, f. 5 bis,
1852.
Cyrena triangula, v. d. Busch, Brit. Mus. Cat. Conchif, 253,
1854.
Cyrena varians, Carpenter, (pars.) Carp. Mazat. Shells, 115,
1857.
Cyrena Mexicana, Carpenter, (pars.) Carp. Mazat. Shells, 115,
1857.
Cyrena triangula, v. d. Busch, Smith. Inst. Misc. Coll.,
Prime Monog. Corb. 14, 1865. *Mexico*.
77. **C. triangularis**, Metcalfe, Proc. Zool. Lond. xix, 74, 1851.
Brit. Mus. Cat. Conchif. 242, 1854. Prime, Cat. Corb. 6,
1863. Ann. Lyc. N. H. N. Y. viii, 234, f. 65, 1866.
Borneo.
78. **C. tribunalis**, Prime. in litt. *Tecames River, Ecuador*.
79. **C. tumida**, Prime.
Cyrena angulata, Deshayes, (preoc.) Proc. Zool. Lond.
xxii, 22, 1854.
Cyrena tumida, Prime, Smith. Inst. Misc. Coll., Prime
Monog. Corb. 26, 1865. *Central America*.
80. **C. Vanikorensis**, Quoy, Voy. Astrolabe, iii, 515, pl. 82,
f. 4, 5, 1834.
Brit. Mus. Cat. Conchif, 252, 1854. *Vanikoro*.

81. *C. ventricosa*, Deshayes, Proc. Zool. Lond. xxii, 16, 1854.
Prime, Cat. Corb. 6, 1863.

Australia and the Philippine Islands.

TO BE EXCLUDED.

- C. æquilateralis*, Deshayes. = *C. Mexicana*.
C. Africana, Krauss. = *Corb. Africana*.
C. Astartina, Martens. = *Corb. Astartina*.
C. Ayrensis, Kurr. = *Corb. Ayrensis*.
C. altilis, Gould. = *C. Mexicana*.
C. angulata, Deshayes. = *C. tumida*.
C. Australis, Lamarck. = *Corb. Australis*.
C. Caledonica, Gassies. = *C. sublobata*.
C. Charpenterianus, Bourguignat. = an *Ancylus*, typ. error.
C. Childrencæ, Gray. = *C. Childrencæ*.
C. chinensis, Férussac, undescribed.
C. compressa, Mousson. = *Corb. compressa*.
C. consobrina, Cailliaud. = *Corb. consobrina*.
C. cor, Lamarck. = *Corb. cor*.
C. corbiculiformis, Prime. = *V. Cochinchensis*.
C. cordiformis, Recluz. = *C. Recluzii*.
C. crassula, Mousson. = *Corb. crassula*.
C. cuneata, Jonas. = *Corb. cuneata*.
C. cyclostoma, Bourguignat. = an *Ancylus*, typ. error.
C. Cyprinoides, Gray. = *V. Cyprinoides*.
C. debilis, Gould. = *Corb. debilis*.
C. Delalandii, Férussac, undescribed.
C. depressa, Lamarck. = *Corb. borealis*.
C. Deshayesianus, Bourguignat. = an *Ancylus*, typ. error.
C. Euphratica, Bronn, undescribed.
C. fluminalis, Bourguignat. = *Corb. fluminalis*.
C. fluminea, Férussac, undescribed.
C. fluviatilis, Philippi. = *Corb. fluviatilis*.
C. fragilis, Deshayes. = *C. Mexicana*.
C. fuscata, Lamarck. = *Corb. fluminalis*.
C. Gaudichaudi, Valenciennes. = *Corb. recurvata*.
C. Gauritziana, Krauss. = *Corb. Africana*.
C. globulus, Jonas. = *Corb. cuneata*.
C. impressa, Deshayes. = *C. eximia*.
C. inflata, Deshayes. = *C. Panamensis*.
C. Islandica, Férussac, undescribed.
C. Jayensis, Lea. = *B. Jayana*.
C. Keraudrenii, Lesson. = *B. Keraudrenii*.
C. Largillierti, Philippi. = *Corb. Largillierti*.

- C. limosa*, Gray. = *Corb. limosa*.
C. mactroides, Deshayes. = *C. mactriformis*.
C. Manillensis, Philippi. = *Corb. Manillensis*.
C. Moquinianus, Bourguignat. = an *Ancylus*, typ. error.
C. nitens, Philippi. = *Corb. nitens*.
C. obesa, Hinds. = *B. obesa*.
C. orientalis, Lamarck. = *Corb. orientalis*.
C. Paranacensis, d'Orbigny. = *Corb. Paranensis*.
C. Peruviana, Deshayes. = *C. anomala*.
C. Petitianus, Bourguignat. = an *Ancylus*, typ. error.
C. Philippinarum, Hanley. = *B. Philippinarum*.
C. pulchella, Mousson. = *Corb. pulchella*.
C. pullata, Philippi. = *Corb. pullata*.
C. purpurea, Lea. = *Venus gemma*.
C. pusilla, Parreys. = *Corb. pusilla*.
C. radiata, Parreys. = *Corb. radiata*.
C. Raymondi, Bourguignat. = an *Ancylus*, typ. error.
C. recurvata, Valenciennes. = *Corb. recurvata*.
C. regulata, Gassies. = *B. tenebrosa*.
C. rivalis, v. d. Busch. = *Corb. rivalis*.
C. rotundata, Lea. = *B. rotundata*.
C. similis, Gray. = *Corb. Woodiana*.
C. solida, Philippi. = *C. Nicaraguana*.
C. subquadrata, Deshayes. = *C. Californica*.
C. subradiata, Kurr. = *Corb. subradiata*.
C. tenebrosa, Hinds. = *B. tenebrosa*.
C. trigonella, Lamarck. = *Corb. trigonella*.
C. turgida, Lea. = *C. Bengalensis*.
C. variegata, D'Orbigny. = *Corb. limosa*.
C. violacea, Lamarck. = *B. violacea*.
C. Woodiana, Lea. = *Corb. Woodiana*.

Genus **SPHÆRIUM**, Scopoli.

Scopoli, Introduct. 397, 1777.

- Chama*, d'Argenville, Hist. Nat. Lithol. Conchyl. 368, 374,
 pl. xxxi, No. 9, 1742.
Tellina, Linnæus, Linn. Syst. Nat. x, edit. I, 678, 1758.
Cardium, Dacosta, Brit. Conch. 173, pl. xiii, f. 2, 1778.
Cyclas, Bruguière, Encycl. Méth. pl. 301, 1792.
Nux, Humphrey, Mus. Calonn. 59, 1797.
Musculium, Link., Coll. Univ. Bostock. pt. iii, 151, 1807.
Cornea, Megerle, Mag. Gesell. Naturf. Berlin, v. 56, 1811.
Corneocyclas, Férussac, Dict. Sci. Nat. xii, 277, 1818.
Amesoda, Rafinesque, Ann. Gen. Sci. Phys. et Nat. v. 310,
 1820.

Cycladites, Krüger, Gesch. Urwelt. ii, 469, 1823.

Pisidium, Verany, Descriz. Genova ii, 1846.

1. Sph. Argentinum, D'Orbigny.

Cyclas Argentina, D'Orbigny, Mag. Zool. 1835, 568, pl. 83, f. 5-7, 1844.

Sph. Argentinum, D'Orbigny, Brit. Mus. Cat. Conchif. 272, 1854. Proc. Ac. N. S. Phila. 31, 1862. Smith Inst. Misc. Coll., Prime Monog. Corb. 52, 1865.

Montevideo, S. America.

2. Sph. aureum, Prime.

Cyclas aurea, Prime, Proc. Soc. N. H. Bost. iv, 159, 1851.

Sph. aureum, Prime, Brit. Mus. Cat. Conchif. 268, 1854. Proc. Ac. N. S. Phila., 404, 1861. Prime, Cat. Corb. 9, 1863. Smith. Inst. Misc. Coll., Prime Monog. Corb. 35, f. 26, 1865.

Lake Superior, U. S. of America.

3. Sph. Bahiense, Spix.

Cylas Bahiensis, Spix. Test. Bras. 32, pl. xxv. f. 5, 6, 1827. Mem. Soc. Phys. H. N. Geneva, vii, 414, 1836.

Cyclas maculata, Anton. (non Morelet), Wiegmann. Archiv. 284, 1837.

Pisum maculatum, Deshayes, Brit. Mus. Cat. Conchif. 283, 1854.

Pisum Bahiense, Deshayes, loc. sup. cit. 284, 1854.

Musculium Bahiense, H. and A. Adams, Gen. Rec. Moll. ii, 451, 1858.

Musculium maculatum, H. and A. Adams, loc. sup. cit. ii, 451, 1858.

Sph. Bahiense, Spix, Proc. Ac. N. S. Phila. 32, 1862. Prime, Cat. Corb. 12, 1863. Smith. Inst. Misc. Coll., Prime Monog. Corb. 53, f. 52, 1865.

Bahia, Brazil.

4. Sph. Barbadosense, Prime, Proc. A. N. S. Phila. 415, 1861.

Prime, Cat. Corb. 12, 1863, Smith. Inst. Misc. Coll., Prime, Monog. Corb. 53, f. 53, 1865.

Barbadoes, W. Indies.

5. Sph. Brochonianum, Bourguignat, Mem. Soc. Sc. phys. et. nat. Bord. i, 1854.

Cyclas Corsa, Charpentier, in litt.

France.

6. Sph. Capense, Krauss.

Cyclas Capensis, Krauss, Moll. S. A. 7, pl. 1, fig. 6, 1848.

Sph. Capense, Krauss, Brit. Mus. Cat. Conchif. 265, 1854.

Cape of Good Hope, Africa.

7. **Sph. contractum**, Prime, Cat. Corb. ii, 1863.
 Smith. Inst. Misc. Coll., Prime Monog. Corb. 48, f. 46,
 1865. *Alabama, U. S. of America.*
8. **Sph. Cooperianum**, Prime, in litt. *California.*
9. **Sph. corneum**, Scopoli.
Chama cinerea, d'Argenville, Hist. nat. Lithol. Conch. 2d
 edit. 326, 321, pl. xxvii, f. 9, 1742.
Tellina cornea, Linnaeus, Syst. Nat. x, edit. i, 678, 1758.
Tellina rivalis, Müller, Verm. ii, 202, 1774.
Sphaerium corneum, Scopoli, Introduct. 397, 1777.
Cardium nux, Dacosta, Brit. Conch. 173, pl. xiii, f. 2-2,
 1778.
Nux nigella, Humphrey, Mus. Calonn. 59, 1797.
Cardium amnicum, Pultney, Cat. Dorset. 31, 1799.
Cyclas cornea, Draparnaud, Tabl. Moll. 195, 1801.
Cardium corneum, Montagu, Test. Brit. 86, 1803.
Cyclas rivalis, Draparnaud, Hist. Moll. 129, pl. x, f. 4, 5,
 1805.
Cornea communis, Megerle, Mag. Gesell. Naturf. Berlin, v,
 56, 1811.
Cyclas alata, Leach, in litt. in Mus. Brit. 1818-19-20.
Cyclas stagnicola, Leach, in litt. in Mus. Brit. 1818-19-20.
Cycladites corneus, Krüger, Gesch. Urwelt. ii, 469, 1823.
Cyclas fossarum, Krynicki, in litt. 183—
Cyclas nucleus, Studer, Nouv. Mem. Soc. Helv. Sc. Nat. i, 25,
 1837.
Cyclas tumida, Zeigler, in litt. Féruss. Cat. 20, 1837.
Cyclas Leachii, Zeigler, in litt. Villa. Cat. 44, 1841.
Cyclas plumbeus, Villa., loc. sup. cit. 44, 1841.
Cyclas citrina, Brown, Illust. Conch. Gr. Brit. etc. 93, pl.
 xxxix, f. 19, 1842.
Cyclas flavescens, Macgillivroy, Hist. Moll. An. 208, 246,
 1843.
Pisidium cornea, Verany, Descriz. Genova, ii, 1846.
Cyclas isocardioides, Normand, Dupuy, Hist. Moll. Fr. 668,
 1852.
Sph. corneum, Scopoli, Mem. Soc. Sc. phys. et nat. Bord. 1.
 1854. Prime, Cat. Corb. 12, 1863. *Europe.*
10. **Sph. Creplini**, Dunker.
Cyclas Creplini, Dunker, Zeit. Malak. 20, 1845.
Pisum Creplini, Deshayes, Brit. Mus. Cat. Conchif. 280,
 1854.
Sph. Creplini, Dunker, Normand. Cycl. Dépt. Nord. 3, 1854.

Musculium Creplini, Dunker, H. and A. Adams, gen. rec.
Moll. ii, 451, 1858.

Sph. Creplini, Dunker, Prime, Cat. Corb. 12, 1863.

Europe.

11. *Sph. Cubanum*, Prime, Cat. Corb. 12, 1863.

Smith. Inst. Misc. Coll., Prime Monog. Corb. 58, f. 60,
1863. *Cuba, W. Indies.*

12. *Sph. dingoli*, Bivona.

Cyclas dingoli, Bivona, Gior. Sci. Lett. ed. Arte. Palermo.
lxvi, 221, 1839.

Psidium dingoli, Bivona, Villa, Cat. 44, 1841. Brit.
Mus. Cat. Conchif. 285, 1854. *Sicily.*

13. *Sph. dentatum*, Haldeman.

Cyclas dentata, Hald., Proc. Ac. N. S. Phila. i, 100, 1841.
Proc. Soc. N. H. Bost. iv, 250, 1852.

Sph. dentatum, Hald., Smith. Inst. Misc. Coll., Prime Monog.
Corb. 40, fig. 32, 1865. *Oregon, U. S. of America.*

14. *Sph. egregium*, Gould.

Cyclas egregia, Gould, Proc. Soc. N. H. Bost. iii, 292, 1850.
U. S. Explor. Expedit. xii, 425, f. 526, 1852.

Oceanica.

15. *Sph. elevatum*, Haldeman.

Cyclas elevata, Hald., Proc. Acad. N. S. Phila. 1, 53, 1841,
N. H. N. Y. v, 224, 1843.

Cyclas pallida, de Charpentier, in litt, 1851.

Sph. elevatum, Hald., Brit. Mus. Cat. Conchif. 269, 1854.
Prime, Cat. Corb. 10, 1863. Smith. Inst. Misc. Coll.,
Prime Monog. Corb. 44, f. 41, 1865. *U. S. of America.*

16. *Sph. emarginatum*, Prime.

Cyclas emarginata, Prime, Proc. Soc. N. H. Bost. iv, 156,
1851.

Sph. emarginatum, Prime, Brit. Mus. Cat. Conchif. 267,
1854. Prime, Cat. Corb. 10, 1863. Smith. Inst. Misc.
Coll., Prime Monog. Corb. 43, f. 38, 1865.

U. S. of America.

17. *Sph. fabale*, Prime.

Cyclas fabalis, Prime, Proc. Soc. N. H. Bost. iv, 159, 1851.

Cyclas castanea, Prime, loc. sup. cit. iv, 160, 1851.

Cyclas sulculosa, de Charpentier, in litt. 1851.

Sph. castaneum, Prime, Brit. Mus. Cat. Conchif. 270, 1854.

Sph. fabale, Prime, loc. sup. cit. 269, 1854. Prime, Cat.
Corb. 10, 1863. Smith. Inst. Misc. Coll., Prime
Monog. 40, f. 33, 1865. *U. S. of America.*

18. Sph. ferrugineum, Krauss.*Cyclas ferruginea*, Krauss, Moll. S. A. 7, pl. 1, fig. 7, 1848.*Pisidium parasiticum*, Parreys, in litt.*Pisum ferrugineum*, Krauss, Brit. Mus. Cat. Conchif. 281, 1854.*Pisum parasiticum*, Parreys, loc. sup. cit. 280, 1854.*Musculium parasiticum*, Parreys, H. and A. Adams, gen. rec. Moll. ii, 452, 1854.*Musculium ferrugineum*, Krauss, loc. sup. cit. ii, 451, 1858.*South Africa.***19. Sph. flavum, Prime.***Cyclas flava*, Prime, Proc. Soc. N. H. Bost. iv, 155, 1851.*Sph. flavum*, Prime, Brit. Mus. Cat. Conchif. 268, 1854.

Prime, Cat. Corb. 10, 1863. Smith. Inst. Misc. Coll.,

Prime Monog. Corb. 43, f. 39, 1865.

*U. S. of America.***20. Sph. inconspicuum, Prime, Proc. Zool. Lond. xxviii, 322, 1860.***Asia Minor.***21. Sph. Indicum, Deshayes, Proc. Zool. Lond. xxii, 342, 1854.**

Brit. Mus. Cat. Conchif. 265, 1854.

*East Indies.***22. Sph. Jayanum, Prime.***Cyclas Jayensis*, Prime, Proc. Soc. N. H. Bost. iv, 157, 1854.*Sph. Jayanum*, Prime. Prime, Cat. Corb. 11, 1863. Smith.

Inst. Misc. Coll., Prime Monog. Corb. 46, 47, f. 43,

1865.

*U. S. America.***23. Sph. Jeannoti, Normand, Cycl. Dépt. Nord. 2, 1854.**

Prime, Cat. Corb. 13, 1863.

*France.***24. Sph. lacustre, Férussac.***Tellina lacustris*, Müller, Verm. ii, 204, 1774.*Cardium lacustre*, Montagu, Test. Brit. 89, 1803.*Cyclas calyculata*, Draparnaud, Hist. Moll. 130, pl. x, f. 14, 15, 1805.*Musculium lacustre*, Link., Coll. Univ. Rostock, Part iii, 152, 1807.*Cyclas lacustris*, Férussac, Méth. Conchyl. 128, 1807.*Tellina tuberculata*, Alten, System, Abhandl. 4, pl. 1, f. 1, 1812.*Tellina tenera*, Schrank, Ann. Wetterau. 316, 1814.*Cyclas tuberculata*, Klees, Dissert. Tubing. 45, 1818.*Tellina stagnicola*, Shephard, Trans. Linn. Soc. Lond. xiv, 150, 1823.*Sph. lacustre*, Bourguignat, Rev. Mag. Zool. 345, 1853.

Brit. Mus. Cat. Conchif. 262, 1854.

Cyclas Perezeei, Villa, in litt. 1854.

Sph. lacustre, Férussac, Prime, Cat. Corb. 13, 1863.

Europe.

25. *Sph. lenticula*, Gould.

Lucina lenticula, Gould, Proc. Soc. N. H. Bost. iii, 256, 1850.

Cyclas lenticula, Gould, U. S. Explor. Expedit. xii, 413, pl. xxxvi, f. 528, 1852.

Sph. lenticula, Gould, Proc. Ac. N. S. Phila. 36, 1862.

Prime, Cat. Corb. 11, 1863. Smith. Inst. Misc. Coll.,

Prime Monog. Corb. 51, f. 51, 1865. *California.*

26. *S. maculatum*, Morelet.

Cyclas maculata, Morelet, Test. Nov. 25, 1851.

S. maculatum, Morelet, Proc. Acad. N. S. Phila. 33, 1862.

Prime, Cat. Corb. 11, 1863. Smith. Inst. Misc. Coll.,

Prime Monog. Corb. 55, f. 55, 1865. *Yucatan, Mexico.*

27. *S. Madagascariense*, Tristram, Proc. Zool. Lond. 61, 1863.

Near Antanarivo, Madagascar.

28. *S. Modioliforme*, Anton.

Cyclas modioliiformis, Anton, Wieg. Archiv. 228, 1837.

Pisidium diaphanum, Haldeman, Proc. Ac. N. S. Phila. i, 53, 1841.

Pisum Modioliforme, Deshayes, Brit. Mus. Cat. Conchif. 283, 1853.

Pisidium Moquinianum, Bourguignat, Rev. Mag. Zool. — 1855.

Cyclas Moquiniana, Gassies, Act. Soc. Linn. Bord, xx, — 1855.

Cyclas striatella, Férussac, Museum of Paris.

Cyclas littoralis, Férussac, Cabinet of Michaud, Lyons.

Cyclas Venezuelensis, Prime, Museum of Leyden.

Musculium Modioliforme, H. and A. Adams, gen. rec. Moll. ii, 451, 1858.

S. Modioliforme, Anton, Proc. Ac. N. S. Phila. 32, 1862.

Smith. Inst. Misc. Coll., Prime Monog. Corb. 54, 1865.

South America.

29. *S. nobile*, Gould.

Cyclas nobilis, Gould, Proc. Soc. N. H. Bost. v, 229, 1855.

U. S. Explor. Expedit. xii, 426, pl. xxxvi, f. 527, 1852.

S. nobile, Gould, Proc. Ac. N. S. Phila. 407, 1861. Prime,

Cat. Corb. 10, 1863. Smith. Inst. Misc. Coll., Prime

Monog. Corb. 41, f. 35. 1865. *U. S. of America.*

30. *S. Novæ-Zelandiæ*, Deshayes, Proc. Zool. Lond. xxii, 342, 1854.

Brit. Mus. Cat. Conchif. 272, 1854.

New Zealand and New Holland.

31. *S. occidentale*, Prime.

Cyclas ovalis (preoc), Prime, Proc. Soc. N. H. Bost. iv, 276, 1852.

Cyclas occidentalis, Prime, loc. sup. cit. v, 122, 1855.

S. ovale, Stimpson, H. and A. Adams, Gen. Rec. Moll. ii, 450, 1858.

S. occidentale, Prime, Proc. Ac. N. S. Phila. 407, 1861.
Prime, Cat. Corb. 10, 1863. Smith. Inst. Misc. Coll.,
Prime Monog. Corb. 41, f. 34, 1865. *U. S. of America.*

32. *S. ovale*, Férussac.

Cyclas lacustris, Draparnaud, Hist. Moll. 130, pl. x, f. 6, 7, 1805.

Cyclas ovalis, Férussac, Méth. Conchyl. 128, 136, 1807.

Cyclas consobrina, Férussac, Dict. Sci. Nat. xii, 279, 1818.

S. Deshayesianum, Bourguignat, Rev. Mag. Zool. 345, 1853.

S. ovale, Férussac, Mem. Soc. Sc. Phys. Bord. i, 1854.

S. consobrinum, Férussac, Brit. Mus. Cat. Conchif. 263, 1854.

S. pallidum, Gray, Ann. Mag. N. H. 2d ser. xvii, 465, 1856.

S. ovale, Férussac, Prime Cat. Corb. 12, 1863. *Europe.*

33. *S. partumeium*, Say.

Cyclas cornea, Lam., var. 2, An. v, 558, 1818.

Cyclas partumeia, Say, J. Ac. N. S. Phila. ii, 380, 1822.
Gould, Invert. 73, f. 54, 1841.

Cyclas orbicularia, Barrat, Amer. J. Sci. xlviii, 276, 1845.

Cyclas mirabilis, Prime, Proc. Soc. N. H. Bost. iv, 157, 1851.

Cyclas cœrulea, Prime, loc. sup. cit. iv, 161, 1851.

S. partumeium, Say, Brit. Mus. Cat. Conchif. 266, 1854.

S. mirabile, Prime, loc. sup. cit. 269, 1854.

S. orbicularium, Barrat, H. and A. Adams, Gen. Rec. Moll. ii, 450, 1858.

S. cœruleum, Prime, loc. sup. cit. ii, 450, 1858.

S. partumeium, Say, Proc. Ac. N. S. Phila. 29, 1862. Prime,
Cat. Corb. 10, 1863. Smith. Inst. Misc. Coll., Prime
Monog. Corb. 45, f. 42, 1865. *U. S. of America.*

34. *S. patella*, Gould.

Cyclas patella, Gould, Proc. Soc. N. H. iii, 292, 1850. *U. S.*
Explor. Expedit. xii, 426, pl. xxxvi, f. 527, 1852.

S. patella, Gould, Brit. Mus. Cat. Conchif. 271, 1854. Prime
Cat. Corb. 10, 1863. Smith. Inst. Misc. Coll., Prime
Monog. Corb. 42, f. 36, 1865. *Oregon, U. S. of America.*

35. *S. perpusillum*, Gärtner.

Cyclas perpusilla, Gärtner, Ann. Wetterau. iii, 316.

Pisum perpusillum, Gärtner, Brit. Mus. Cat. Conchif. 285,
1854 *Hanover, Germany.*

36. *S. rhomboideum*, Say.

Cyclas cornea. Lam., var. 3, An. v. 558, 1818.

Cyclas rhomboidea, Say, J. Ac. N. S. Phila. ii, 380, 1822.

Cyclas elegans, C. B. Adams, J. N. H. Bost. iii, 330, pl. iii, f. 11, 1840. Gould, Invert. 74, f. 55, 1841. N. H. N. Y. v, 224, 1843.

Cyclas rhomboidea, Say, N. H. N. Y. v, 224, pl. xxv, f. 263, 1843. Ann. Lyc. N. H. N. Y. vi, 66, pl. 1, f. 4, 1853.

S. rhomboideum, Say, Brit. Mus. Cat. Conchif. 266, 1854.

S. elegans, C. B. Adams, loc. sup. cit. 270, 1854.

S. rhomboideum, Say, Prime Cat. Corb. 9, 1863. Smith. Inst. Misc. Coll., Prime Monog. Corb. 39, f. 31, 1865.

U. S. of America.

37. *S. rivicola*, Lamarck.

Chama albida, d'Argenville, Hist. Nat. Lithol. Conch. 368, pl. xxxi, f. 9, 1742.

Tellina cornea (pars), Schröter, Fluss. Conch. 189, pl. iv, f. 4, 1779.

Cyclas cornea, (pars), Draparnaud, Tabl. Moll. 105, var. a, 1801.

Cyclas rivicola, Lamarck, An. v, 558, 1818.

Cyclas sabulicola, Krynicki, in litt. 183—

Cyclas aequata, junior, Sheppard, in litt. 1840.

S. riviculum, Leach, Mörch. Cat. Conch. 30, 1853.

S. rivicola, Lamarck, Rev. Mag. Zool. 345, 1853. Mem. Soc. Sc. Phys. et Nat. Bord. i, 1854. Brit. Mus. Cat. Conchif. 261. 1854. Prime Cat. Corb. 12, 1863. *Europe.*

38. *S. rosaceum*, Prime.

Cyclas rosacea, Prime, Proc. Soc. N. H. Bost. iv, 155, 1851.

S. rosaceum, Prime, Brit. Mus. Cat. Conchif. 270, 1854.

Prime, Cat. Corb. 11, 1863. Smith. Inst. Misc. Coll.,

Prime Monog. Corb. 50, f. 48, 1865.

Schuylkill River, U. S. of America.

39. *S. Ryckholtii*, Normand.

Cyclas Ryckholtii, Normand, Not. Cycl. Valenc. 7, f. 5, 6, 1844.

S. Ryckholtii, Normand, Rev. Mag. Zool. 345, 1853.

S. strictum, Normand, Cycl. Dépt. Nord. 3, 1854.

S. Ryckholtii, Normand, Prime Cat. Corb. 12, 1863. *France.*

40. *S. Scaldianum*, Normand.

Cyclas Scaldiana, Normand, Not. Cycl. Valenc. 5, f. 1, 2, 1844.

S. corneum (pars), Bourguignat, Rev. Mag. Zool. 345, 1853.

S. citrinum, Normand, Cycl. Dépt. Nord. 1, 1854.

S. Scaldianum, Normand, Mem. Soc. Sc. Phys. et Nat. Bord.
i, 1854. Prime Cat. Corb. 12, 1863. *Europe.*

41. *S. securis*, Prime.

Cyclas securis, Prime, Proc. Soc. N. H. Bost. iv, 160, 1851.

Cyclas cardissa, Prime, loc. sup. cit. iv, 160, 1851.

Cyclas securis, Prime, Ann. Lyc. N. H. N. Y. v, 218, pl. vi,
1852.

Cyclas crocea, Lewis, Proc. Soc. N. H. Bost. v, 25, 1854.

S. cardissa, Prime, Brit. Mus. Cat. Conchif. 268, 1854.

S. securis, Prime, loc. sup. cit. 268, 1854. Prime Cat. Corb.
11, 1863. Smith. Inst. Misc. Coll., Prime Monog. Corb.
49, f. 47, 1865. *U. S. of America.*

42. *S. simile*, Say.

Cyclas similis, Say, Nichols. Encycl. 1st Amer. edit. ii, pl. 1,
f. 9, 1817.

Cyclas sulcata, Lamarck, An. v, 560, 1818.

Cyclas Sarratogea, Lamarck, loc. sup. cit. v, 560, 1818.

Cyclas lasmampsis, Rafinesque, Ann. gen. Sci. phys. et nat.
v, 319, pl. lxxxii, f. 19, 20, 1820.

Cyclas striatina, Lamarck, Férussac, Mag. Zool. 1835.

Cyclas sulcata, Lamarck, Delessert, Recueil, pl. vii, f. 3, 1841.

Cyclas Sarratogea, Lamarck, loc. sup. cit. pl. vii, f. 9, 1841.

Cyclas similis, Say, Gould Invert. 72, f. 53, 1831.

Cyclas rhomboidea, Say, C. B. Adams, Vermont, 18, 1842.

Cyclas solida, DeKay, N. H. N. Y. v, 229, pl. xxv. f. 265,
1843.

Cyclas gigantea, Prime, Proc. Soc. N. H. Bost. iv, 157, 1851.

Cyclas ponderosa, Prime, Proc. Soc. N. H. Bost. iv, 157, 1851.

S. simile, Say, Brit. Mus. Cat. Conchif. 265, 1854.

S. giganteum, Prime, loc. sup. cit. 267, 1854.

S. ponderosum, Prime, loc. sup. cit. 268, 1854.

S. sulcatum, Lamarck, Prime Cat. Corb. 8, 1863. Smith.
Inst. Misc. Coll., Prime Monog. Corb. 33, f. 25, 1865.

North America.

43. *S. solidulum*, Prime.

Cyclas solidula, Prime, Proc. Soc. N. H. Bost. iv, 158, 1851.

Cyclas distorta, Prime, loc. sup. cit. iv. 158, 1851.

S. solidulum, Prime, Brit. Mus. Cat. Conchif. 269, 1854.

S. distortum, Prime, loc. sup. cit. 271, 1854.



S. solidulum, Prime, Cat. Corb. 9, 1863. Smith. Inst. Misc.
Coll., Prime Monog. Corb. 36, f. 27, 1865.

U. S. of America.

44. *S. solidum*, Normand.

Cyclas solida, Normand, Not. Cycl. Valenc. 6, f. 3, 4, 1844.

- S. solidum*, Normand, Rev. Mag. Zool. 345, 1858. Mem. Soc. Sci. Phys. Bord. i, 1854. Prime Cat. Corb. 12, 1863. *Europe.*
- 45. *S. sphæricum*, Anthony.**
Cyclas sphærica, Anthony, Proc. Bost. Soc. N. H. Bost. iv, 275, 1852.
Sph. sphæricum, Anthony, H. and A. Ad., Gen. Rec. Moll. ii, 450, 1858. Prime Cat. Corb. 11, 1863. Smith. Inst. Misc. Coll., Prime Monog. Corb. 50, f. 49, 1865. *U. S. of America.*
- 46. *S. stamineum*, Conrad.**
Cyclas staminea, Conrad, Amer. J. Sci. xxv, 342, pl. 1, f. 5, 1834.
Cyclas fuscata, Rafinesque, Prime in Proc. Soc. N. H. Bost. iv, 281, 1852.
Cyclas bulbosa, Anthony, loc. sup. cit. iv. 283, 1852.
Sph. stamineum, Conrad, Brit. Mus. Cat. Conchif. 267, 1854. Prime Cat. Corb. 9, 1863. Smith. Inst. Misc. Coll., Prime Monog. Corb. 38, f. 30, 1865. *U. S. of America.*
- 47. *S. Steinii*, Schmidt.**
Cyclas Steinii, Schmidt, Zeit. Malak. 118, 1850.
Sph. Steinii, Schmidt, H. and A. Ad., Gen. Rec. Moll. ii, 450, 1858. *Germany.*
- 48. *S. striatinum*, Lamarek.**
Cyclas striatina, Lamarek, An. v. 560, 1818.
Cyclas edentula, Say, N. Harm. Dissem. 356, 1829.
Cyclas striatina, Lamarek, Delessert. Recueil. pl. vii, f. 14, 1841.
Cyclas cornea, C. B. Adams, Cat. 29, 1847.
Cyclas albula, Prime, Proc. Soc. N. H. Bost. iv, 155, 1851.
Cyclas tenuistriata, Prime, loc. sup. cit. iv, 156, 1851.
Cyclas acuminata, Prime, loc. sup. cit. iv, 158, 1851.
Cyclas inornata,
Cyclas simplex,
Cyclas modesta,
 } Prime, loc. sup. cit. iv, 159, 1851.
Sph. tenuistriatum, Prime, Brit. Mus. Cat. Conchif. 267, 1854.
Sph. albulum, Prime, loc. sup. cit. 269, 1854.
Sph. inornatum, Prime, loc. sup. cit. 270, 1854.
Sph. neodestum, Prime, loc. sup. cit. 270, 1854.
Sph. simplex, Prime, loc. sup. cit. 271, 1854.
Sph. acuminatum, Prime, loc. sup. cit. 271, 1854.
Pisum edentulum, Say, loc. sup. cit. 282, 1854.
Musculium edentulum, Say, H. and A. Ad., Gen. Rec. Moll. ii, 450, 1858.

- Sph. striatinum*, Lamarck, Proc. Ac. N. S. Phila. 405, 1861.
Prime Cat. Corb. 9, 1863. Smith. Inst. Misc. Coll.,
Prime Monog. Corb. 37, f. 29, 1865. *North America*.
- 49. S. subtransversum**, Prime, Proc. Zool. Lond. xxviii,
322, 1860. Smith. Inst. Misc. Coll., Prime Monog.
Corb. 52, 1865. *Mexico*.
- 50. S. tenue**, Prime.
 *Cyclas tenuis*, Prime, Proc. Soc. N. H. Bost. iv, 161, 1851.
 *Sph. tenue*, Prime, H. and A. Ad., Gen. Rec. Moll. ii, 450,
1858. Prime Cat. Corb. 11, 1863. Smith. Inst. Misc.
Coll., Prime Monog. Corb. 17, f. 44, 1865.
U. S. of America.
- 51. S. Terverianum**, Dupuy.
Cyclas Terveriana, Dupuy, extram. Gall. test. 87, 1849. Du-
puy Hist. Moll. Tr. 674, pl. xxix, f. 9, 1852.
S. Terverianum, Dupuy, Rev. Mag. Zool. 135, 1853, Mem.
Soc. Sc. Phys. Bord. i, 1854. Prime, Cat. Corb. 12,
1863. *France*.
- 52. S. transversum**, Say.
Cyclas transversa, Say, N. Harm. Dissem. 356, 1829.
Cyclas detruncata, Prime, Proc. Soc. N. H. Bost. iv, 155,
1851.
Cyclas gracilis, Prime, Loc. sup. cit. iv, 156, 1851.
Cyclas constricta, Anthony, Loc. sup. cit. iv, 274, 1852.
Sph. transversum, Say, Brit. Mus. Cat. Conchif. 267, 1854.
Sph. gracile, Prime, Loc. sup. cit. 268, 1854.
Sph. detruncatum, Prime, Loc. sup. cit. 272, 1854.
Sph. transversum, Say, Proc. Ac. N. S. Phila. 31, 1862.
Prime, Cat. Corb. 11, 1863. Smith Inst. Misc. Coll.,
Prime Monog. Corb. 48, f. 45, 1865. *U. S. of America*.
- 53. S. triangulare**, Say.
Cyclas triangularis, Say, N. Harm. Dissem. 356, 1829.
Sph. triangulare, Say, Proc. Ac. N. S. Phila. 28, 1862.
Smith. Inst. Misc. Coll., Prime Monog. Corb. 36, f. 28,
1865. *Mexico*.
- 54. S. truncatum**, Linsley.
Cyclas calyculata, Draparnaud, C. B. Ad., Amer. J. Sci. xl,
277, 1841. C. B. Ad., Vermont, 18, 1842. C. B. Ad.,
Cat. 29, 1847.
Cyclas truncata, Linsley, Amer. J. Sci. n. ser. vi, 234, f. 3,
1848.
Cyclas pellucidea, Prime, Stimp. Moll. N. E. 16, 1851.

- Sph. pellucidum*, Prime, H. & A. Ad., Gen. Rec. Moll. ii, 450, 1858.
- Sph. truncatum*, Linsley, Proc. Ac. N. S. Phila. 35, 1862. Prime, Cat. Corb. 11, 1863. Smith. Inst. Misc. Coll., Prime Monog. Corb. 51, f. 50, 1865. *U. S. of America.*
- 55. *S. Veatleyi***, C. B. Adams.
- Cyclas Veatleyi*, C. B. Adams, Contr. Conch. 44, 1849.
- Pisidium Veatleyi*, Petit, J. Conch. ii, 421, 1851.
- Pisum Veatleyi*, C. B. Adams, Brit. Mus. Cat. Conchif. 283, 1854.
- Musculium Veatleyi*, C. B. Adams, H. & A. Ad. Gen. Rec. Moll. ii, 452, 1858.
- Sph. Veatleyi*, C. B. Adams, Proc. Ac. N. S. Phila. 34, 1862. Prime, Cat. Corb. 12, 1863. Smith. Inst. Misc. Coll., Prime Monog. Corb. 56, f. 56, 1865.
- Jamaica, W. Indies.*

TO BE EXCLUDED.

- Sph. acuminatum*, Prime. = *Sph. striatinum*.
- Cyclas acuta*, Pfeiffer. = *P. Henslowianum*.
- Cyclas æqualis*, Rafinesque. = *P. Virginicum*.
- Cyclas æquata*, Sheppard. = *Sph. rivicola*.
- Cyclas alata*, Leach. = *Sph. corneum*.
- Sph. albulum*, Prime. = *Sph. striatinum*.
- Cyclas altilis*, Anthony. = *P. compressum*.
- Cyclas Americana*, Christofori & Jan.; undescribed.
- Cyclas amnica*, Turton. = *P. amnicum*.
- Cyclas appendiculata*, Turton. = *P. Henslowianum*.
- Cyclas Australis*, Lamarck. = *Corb. Australis*.
- Cyclas Bengalensis*, Férussac. = *C. Bengalensis*.
- Cyclas borealis*, Lamarck. = *Corb. borealis*.
- Cyclas calyculata*, Draparnaud. = *Sph. lacustre*.
- Sph. cardissum*, Prime. = *Sph. securis*.
- Cyclas Caroliniana*, Bosc. = *C. Caroliniensis*.
- Sph. castaneum*, Prime. = *Sph. fabale*.
- Cyclas Chilensis*, D'Orbigny. = *P. Chilense*.
- Cyclas Chinensis*, Lamarck. = *Corb. fluminea*.
- Cyclas cinerea*, Hanley. = *P. casertenum*.
- Cyclas citrina*, Brown. = *Sph. corneum*.
- Sph. citrinum*, Normand. = *Sph. Scaldianum*.
- Cyclas clandestina*, DaCosta.; a marine shell.
- Sph. coeruleum*, Prime. = *Sph. partumeium*.
- Cyclas consobrina*, Cailliaud. = *Corb. consobrina*.

- Sph. consobrinum*, Férussac. = *Sph. ovale*.
Sph. constrictum, Anthony. = *Sph. transversum*.
Cyclas Corsa, Charpentier. = *Sph. Brochonianum*.
Cyclas crocea, Lewis. = *Sph. securis*.
Cyclas Cychkolzii, Bientina; undescribed.
Cyclas Cyrænopsis, Valenciennes. = *Corb. Cyrænopsis*.
Sph. detruncatum, Prime. = *Sph. transversum*.
Sph. Deshayesianum, Bourguignat. = *Sph. ovale*.
Cyclas diaphana, Prime. = *Sph. modioliforme*.
Sph. distortum, Prime. = *Sph. solidulum*.
Cyclas dubia, Say. = *P. Virginicum*.
Cyclas dubiosa, Say. = *P. Virginicum*.
Cyclas duplicata, Pfeiffer. = *P. duplicatum*.
Cyclas Dupontia, Férussac. = *Cyrenella Dupontia*.
Sph. eburneum, Anthony. = *Sph. partumeium*.
Cyclas edentula, Say. = *Sph. striatinum*.
Cyclas elegans, C. B. Adams. = *Sph. rhomboideum*.
Cyclas errans, Lewis.; undescribed.
Cyclas elliptica, Férussac.; undescribed.
Cyclas Euphratica, Lamarck = *Corb. fluminalis*.
Cyclas flavescens, McGillivray = *Sph. corneum*.
Cyclas fluminea, Bosc.; undescribed.
Cyclas fluviatilis, Bosc.; undescribed.
Cyclas Fontaineii, D'Orbigny. = *C. Fontaineii*.
Cyclas fontinalis, Draparnaud. = *P. pusillum*.
Cyclas fossarum, Krynicki. = *Sph. corneum*.
Sph. fuscatum, Rafinesque. = *Sph. striatinum*.
Cyclas gibba, Alder. = *P. obtusale*.
Sph. giganteum, Prime. = *Sph. simile*.
Cyclas globosa, Megerle. = *Sph. corneum*.
Sph. gracile, Prime. = *Sph. transversum*.
Cyclas hammalis, Rafinesque; undescribed.
Euglesa Henslowiana, Leach; a *Sphærium*.
Cyclas hermaphrodita, Mart. = *Galathea radiata*.
Sph. Herminii, Wäld. = *P. casertanum*.
Sph. inornatum, Prime. = *Sph. striatinum*.
Cyclas Islandica, Lamarck. = *Cyprina Islandica*.
Cyclas isocardioides, Normand. = *Sph. corneum*.
Cyclas lacustris, Draparnaud. = *Sph. ovale*.
Cyclas lævigata, Schumacker, is *Corb* ?
Cyclas lasmampsis, Rafinesque. = *Sph. simile*.
Cyclas Leachii, Ziegler. = *Sph. corneum*.
Cyclas lenticularis, Normand. = *P. casertanum*.
Cyclas limosa, D'Orbigny. = *Corb. limosa*.
Cyclas littoralis, Férussac. = *Sph. modioliforme*.

- Cyclas lutea*, Ziegler. = *Sph. corneum*.
Cyclas maculata, Anton. = *Sph. Bahiense*.
Cyclas maritima, D'Orbigny. = *C. Cubana*.
Cyclas minor, C. B. Adams. = *P. abditum*.
Cyclas minima, Studer. = *P. obtusale*.
Sph. mirabile, Prime. = *Sph. partumeium*.
Sph. modestum, Prime. = *Sph. striatinum*.
Cyclas Moquiniana, Gassies. = *Sph. modioliforme*.
Cyclas Nepeanensis, Lesson. = *Corb. Nepeanensis*.
Cyclas nitida, Hanley. = *P. abditum*.
Sph. nitidum, C. B. Adams and Mighles. = *P. Adamsi*.
Cyclas nucleus, Studer. = *Sph. corneum*.
Cyclas obliqua, Lamarck. = *P. amnicum*.
Cyclas obtusalis, Lamarck. = *P. obtusale*.
Sph. orbicularium, Barrat. = *Sph. partumeium*.
Sph. ovale, Stimpson. = *Sph. occidentale*.
Cyclas ovalis, Nilsson. = *P. obtusale*.
Cyclas ovalis, Prime. = *Sph. occidentale*.
Sph. ovatum, Lewis ; undescribed.
Cyclas pallida, Charpentier. = *Sph. ovale*.
Cyclas palustris, Draparnaud. = *P. amnicum*.
Cyclas Paranensis, D'Orbigny. = *Corb. Paranensis*.
Sph. pellucidum, Prime. = *Sph. truncatum*.
Cyclas Perezeii, Villa. = *Sph. lacustre*.
Cyclas Pfeifferi, Ziegler. = *P. amnicum*.
Sph. Pisidioides, Gray. = *Sph. corneum*.
Cyclas plumbeus, Villa. = *Sph. corneum*.
Sph. ponderosum, Prime. = *Sph. simile*.
Sph. proximum, Alder. ; undescribed.
Cyclas pulchella, Hanley. = *P. casertanum*.
Sph. pulchellum, D'Orbigny. = *P. pulchellum*.
Cyclas punctifera, Guppy. = *P. punctiferum*.
Cyclas pusilla, Turton. = *P. pusillum*.
Sph. pygmeum, C. B. Adams. = *P. Jamaicense*.
Cyclas quercus, Lewis ; undescribed.
Cyclas radiata, Blainville. = *Galathea radiata*.
Cyclas rivalis, Draparnaud. = *Sph. corneum*.
Cyclas rugosa, Whittemore ; undescribed.
Cyclas sabulicola, Krynicki. = *Sph. rivicola*.
Cyclas Sarratogea, Lamarck. = *Sph. simile*.
Sph. simplex, Prime. = *Sph. striatinum*.
Cyclas solida, De Kay. = *Sph. simile*.
Cyclas stagnicola, Leach. = *Sph. corneum*.
Cyclas Steenbuchii, Moller. = *P. Steenbuchii*.
Cyclas striatella, Férussac. = *Sph. modioliforme*.

- Sph. strictum*, Normand. = *Sph. Ryckholtii*.
Sph. sulcatum, Lamarck. = *Sph. simile*.
Cyclas sulculosa, Charpentier. = *Sph. fabale*.
Cyclas Sumatrensis, Férussac; undescribed.
Sph. tenuistriatum, Prime. = *Sph. striatinum*.
Cyclas tuberculata, Klees. = *Sph. lacustre*.
Cyclas tumida, Ziegler. = *Sph. corneum*.
Cyclas variegata, D'Orbigny. = *Corb. limosa*.
Cyclas Venezuelensis, Prime. = *Sph. modioliforme*.
Cyclas Virginica, Férussac. = *P. Virginicum*.
Cyclas violacea, Lamarck. = *B. violacea*.
Cyclas vitrea, Risso. = *P. casertanum*.
Cyclas Zeylanica, Lamarck. = *C. Ceylonica*.
Sph. zonatum, Prime; undescribed.

Genus **PISIDIUM**, C. Pfeiffer.

System. Anord., 1821.

- Tellina*, Müller, Verm. ii, 205, 1774.
Sphaerium, Scopoli, Introduct. 397, 1777.
Cardium, Poli, Test. Sicil. i, 65, pl. xvi, f. 1, 1791.
Cyclas, Draparnaud, Tabl. Moll. 106, 1801.
Pera, *Cordula*, Leach, in litt. in Mus. Brit. 1818-20.
Physemoda, Rafinesque, Ann. gen. Sc. phys. et nat. v, 319, 1820.
Gallileja, Costa, Corrisp. Zool., 1839.
Pisum, Gray (non Megerle), Proc. Zool. Lond. xv, 184, 1847.
Musculium, Gray (non Link), 1851.
Pisum, Deshayes (non Megerle), Brit. Mus. Cat. Conchif., 1854.
Musculium, H. & A. Adams (non Link).
Pisum, H. & A. Adams (non Megerle), Gen. Rec. Moll. ii, 1858.

1. **P. abditum**, Haldeman.

- Pisidium abditum*, Haldeman, Proc. Ac. N. S. Phila. 1, 53, 1841.
Cyclas minor, C. B. Adams, Proc. Soc. N. H. Bost. 1, 48, 1841. J. N. H. Bost. iv, 39, pl. iv, f. 2, 1841.
Pisidium tenellum, Gould, Ag. Lake Super. 245, 1848.
Pisidium minus, Stimpson, Moll. N. E. 16, 1851.
Pisidium obscurum, Prime, Proc. Soc. N. H. Bost. iv, 161, 1851.
Pisidium Kurtzi, Prime, Loc. sup. cit. iv, 162, 1851.
Pisidium zonatum, Prime, Loc. sup. cit. iv, 162, 1851.
Pisidium rubellum, Prime, Loc. sup. cit. iv, 163, 1851.

Pisidium regulare, Prime, J. N. H. Bost. vi, 363, pl. xii, f. 11, 12, 1852.

Pisidium notatum, Prime, Loc. sup. cit. vi, 365, pl. xii. f. 20—22, 1852.

Pisidium arcuatum, Prime, Loc. sup. cit. vi, 364, pl. xii, f. 14—16, 1852.

Pisum minus, Deshayes, Brit. Mus. Cat. Conchif. 281, 1854.

Pisum abditum, Deshayes, Loc. sup. cit. 282, 1854.

Pisidium resartum, Ingalls in litt., 1855.

Pisidium rubrum, Lewis in litt., 1855.

Pisidium plenum, Lewis in litt., 1855.

Musculium abditum, H. & A. Adams, Gen. Rec. Moll. ii, 451, 1858.

Musculium minus, H. & A. Adams, Loc. sup. cit. ii, 451, 1858.

Musculium rubellum, H. & A. Adams, Loc. sup. cit. ii, 452, 1858.

Musculium obscurum, H. & A. Adams, Loc. sup. cit. ii, 452, 1858.

Musculium Kurtzi, H. & A. Adams, Loc. sup. cit. ii, 451, 1858.

Musculium zonatum, H. & A. Adams, Loc. sup. cit. ii, 452, 1858.

Pisum obscurum, H. & A. Adams, Loc. sup. cit. ii, 660, 1858.

Pisum Kurtzi, H. & A. Adams, Loc. sup. cit. ii, 660, 1858.

Pisum rubellum, H. & A. Adams, Loc. sup. cit. ii, 660, 1858.

Pisum zonatum, H. & A. Adams, Loc. sup. cit. ii, 660, 1858.

Pisidium abditum, Haldeman, Prime, Cat. Corb. 14, 1863.
Smith. Inst. Misc. Coll., Prime Monog. Corb. 68, f. 72,
73, 1865. *U. S. of America.*

2. *P. Adamsi*, Prime.

Cyclas nitida, Mighles, Proc. Soc. N. H. Bost. i, 48, 1841.

J. N. H. Bost. iii, 330, pl. iii, f. 11, 1841.

Pisidium Adamsi, Prime, Stimp. Moll. N. E. 16, 1851. Bost.

J. vi, 352, pl. xi, f. 1—3, 1852.

Sphærium nitidum. Deshayes, Brit. Mus. Cat. Conchif. 271, 1854.

Pisidium Adamsi, Prime, Cat. Corb. 13, 1863. Smith. Inst. Misc. Coll., Prime Monog. Corb. 63, f. 63, 64, 1865.

U. S. of America.

3. *P. æquilaterale*, Prime.

J. N. H. Bost. vi. 366, pl. xii, f. 23—25, 1852. Prime,

Cat. Corb. 14, 1863. Smith. Misc. Col., Prime Monog.

Corb. 23, f. 65, 66, 1865.

U. S. of America.

4. *P. amnicum*, Jenyns.

Tellina amnica, Müller, Verm. ii, 205, 1774.

- Tellina striata*, Schröter, Fluss. Conch. 193, 1779.
Tellina rivalis, Maton & Racket, Trans. Linn. Soc. Lond. iii, 44, pl. xiii, f. 37, 38, 1797.
Cyclas palustris, Draparnaud, Drap. Tabl. Moll. 106, 1801.
Cardium amnicum, Montagu, Test. Brit. 86, 1803.
Cyclas obliqua, Lamarck, An. v, 559, 1818.
Pera fluviatilis, Leach, in litt. in Mus. Brit. 1820.
Pera Henslowiana, Leach, in litt. in Mus. Brit. 1820.
Pisidium obliquum, C. Pfeiffer, System. Anord. 124, pl. v, f. 19, 20, 1821.
Cyclas amnica, Turton, Conch. Brit. 250, pl. ii, f. xv, 1822.
Pisidium amnicum, Jenyns, Trans. Phil. Soc. Cambr. iv, 309, pl. xix, f. 2, 1832.
Pisidium inflatum, Megerle, Porro. Mal. Comasca, 121, pl. ii, f. 13, 1838.
Cyclas Pfeifferi, Ziegler, Loc. sup. cit. 121, 1838.
Pisidium palustre, Porro., Loc. sup. cit. 121, 1838.
Cordula amnica, Leach, Moll. Brit. Synop. 291, 1852.
Pera amnica, Leach, Loc. sup. cit. 292, 1852.
Pisidium Grateloupianum, Normand. Cycl. Dépt. Nord, 4, 1854.
Pisidium intermedium, Gassies, Act. Soc. Linn. Bord. xx, 1855.
Pisidium sulcatum, Parreys in litt.
Pisum amnicum, Deshayes, Brit. Mus. Cat. Conchif. 284, 1854.
Pisidium amnicum, Jenyns, Baudon, Pisid. Fr. 37, pl. iii, J. G. H., 1857.
Pisidium Burgundiacum, Billié in litt., 1858.
Musculium amnicum, H. & A. Adams, Gen. Rec. Moll. ii, 451, 1858.
Pisidium amnicum, Jenyns, Prime, Cat. Corb. 15, 1863.
- Europe.*
- 5. P. Angelicum**, Rowell, Proc. Calif. Acad. Nat. Sciences.
Angel Island, California.
- 6. P. Arcaeforme**, Malm.
Sweden.
- 7. P. Australe**, Deshayes (non Philippi).
Cyclas Australis, Lamarck, (varietas), An. v, 660, 1818.
Pisum Australe, Deshayes, Brit. Mus. Cat. Conchif. 285, 1854.
Musculium Australe, H. & A. Adams, Gen. Rec. Moll. ii, 451, 1858.
King George's Sound, New Holland.
- 8. P. Canariense**, Shuttleworth, Mittheil. Naturf. Gesell. Bern. 1852.
Pisum Canariense, Deshayes, Brit. Mus. Cat. Conchif. 281, 1854.

Musculiam Canariense, H. & A. Adams, Gen. Rec. Moll. ii, 451, 1858.

Pisidium Canariense, Shuttleworth, Prime, Cat. Corb. 17, 1863.
Canary Islands.

9. P. Casertanum, Bourguignat.

Cardium Casertanum, Poli, Test. Sicil. i, 65, pl. xvi, f. 1, 1791.

Cardium amnicum, jr. Montagu, Test. Brit. 88, 1803.

Cyclas vitrea, Risso, Hist. Nat. Nice. iv, 338, 1826.

Pera pulchella, Leach, in litt. in Mus. Brit., 1820.

Pisidium pulchellum, Jenyns, Trans. Phil. Soc. Cambr. iv, 306, pl. xxi, f. 1—5, 1832.

Pisidium Australe, Philippi (non Deshayes), Enum. Moll. Sicil. i, 39, 1836.

Pisidium cinereum, Alder, Trans. N. H. Soc. Northumb. ii, 337, 1837.

Pisidium Lumsternianum, Forbes, Ann. N. H., 255, pl. xii, f. 4, 1839.

Pisidium obtusale, Villa, Cat. 44, 1841.

Cyclas obliqua (pars), Dupuy, Moll. Gers., 91, 1843.

Cyclas pulchella, Hanley, Descrip. Cat. 91, 1844.

Cyclas cinerea, Hanley, Loc. sup. cit. 91, 1844.

Cyclas lenticularis, Normand. Not. Cycl. Valenc. 8, f. 7, 8, 1844.

Pisidium Joannis, Macgillivray, Hist. Moll. An. 202, 252, 1843.

Pisidium Jenynsii, Macgillivray, Loc. sup. cit. 209, 249, 1843.

Pisidium Australe, Philippi (non Deshayes), Enum. Moll. Sicil. ii, 31, pl. xiv, f. 2, 1844.

Pisidium vitreum, Verany, Descrip. Genova, 1846.

Pisidium limosum, Gassies, Moll. Agen. 206, pl. ii, f. 10, 11, 1849.

Pisidium iratianum, Dupuy, Gall. Test. No. 234, 1849.

Pisidium thermale, Dupuy, Loc. sup. cit. No. 238, 1849.

Pisidium caliculatum, Dupuy, Loc. sup. cit. No. 229, 1849.

Pisidium sinuatum, Bourguignat, J. Conchyl. ii, 421, 1851.

Pisidium lenticulare, Dupuy, Hist. Moll. Fr. 680, pl. xxx, f. 2, 1852.

Pisidium Casertanum, Bourguignat, Rer. Mag. Zool. 1854.

Pisum Casertanum, Deshayes, Brit. Mus. Cat. Conchif. 275, 1854.

Pisum vitreum, pars Deshayes, Loc. sup. cit. 276, 1854.

Pisum pulchellum, Deshayes, Loc. sup. cit. 278, 1854.

Pisum Lumsternianum, Deshayes, Loc. sup. cit. 280, 1854.

Pisum lenticulare, Deshayes, Loc. sup. cit. 280, 1854.

Pisum depressum, Deshayes, Loc. sup. cit. 285, 1854.

- Pisidium rotundum*, de Cessac Bull. Soc. Sci. Nat. Creuse, ii, 1855.
- Pisidium globulosum*, Gassies, Act. Soc. Linn. Bord. xx, 1855.
- Pisidium planum*, Pfeiffer, in litt.
- Pisidium Casertanum*, Bourguignat, Baudon, Pisid. Fr. 30, pl. ii, f. C, 1857.
- Pisidium Stabileii*, Schmidt, in litt. 1858.
- Musculium Casertanum*, H. & A. Adams, Gen. Rec. Moll. ii, 451, 1858.
- Musculium vitreum*, H. & A. Adams, Loc. sup. cit. ii, 452, 1858.
- Sphaerium Herminii*, Wäld, in Collect. Cuming, 1859.
- Pisidium Casertanum*, Bourguignat. Prime. Cat. Corb. 16, 1863. *Europe..*
- 10. P. Chilense**, Deshayes.
- Cycas Chilensis*, D'Orbigny, Voy. 568, pl. 83, f. 11-13, 1846.
- Pera Chilensis*, Gray, Brit. Mus. List Shells. S. Amer. 69, 1854.
- Pisum Chilense*, Deshayes, Brit. Mus. Cat. Conchif. 254, 1854.
- Musculium Chilense*, H. & A. Adams, Gen. Rec. Moll. ii, 451, 1858.
- Corbicula Chilensis*, Prime, Proc. Ac. N. S. Phila. 269, 1860.
- Pisidium angulatum*, Prime, Proc. Zool. Lond. xxviii, 322, 1860.
- Pisidium Chilense*, Deshayes, Prime, Cat. Corb. 15, 1863. Smith. Inst. Misc. Coll., Prime Monog. Corb. 69, f. 75, 1865. *Chili, S. America..*
- 11. P. compressum**, Prime.
- Cycas altilis*, Anthony, in litt, 1847.
- Pisidium compressum*, Prime, Proc. Soc. N. H. Bost. iv, 164, 1851.
- Pisidium altile*, Anthony, J. N. H. Bost. vi, 353, pl. xi, f. 10-12, 1852.
- Pisidium cicer*, Prime, Ann. Lyc. N. H. N. Y., vi, 65, pl. 1, f. 1, 1853.
- Pisum compressum*, Deshayes, Brit. Mus. Cat. Conchif. 282, 1854.
- Pisum altile*, Deshayes, Loc. sup. cit. 280, 1854.
- Musculium compressum*, H. & A. Adams, Gen. Rec. Moll. ii, 451, 1858.
- Musculium cicer*, H. & A. Adams, Loc. sup. cit. ii, 451, 1858.
- Pisum cicer*, H. & A. Adams, Loc. sup. cit. ii, 660, 1858.
- Pisidium compressum*, Prime, Cat. Corb. 14, 1863. Smith. Inst. Misc. Coll., Prime Monog. Corb. 64, f. 67, 68, 1865. *U. S. of America..*

12. **P. conicum**, Baudon.
Baudon. Pisid. Fr. 50, fl. v, f. B, 1857. Prime. Cat. Corb.
17, 1863. *France.*
13. **P. consanguineum**, Prime.
Smith. Inst. Misc. Coll., Prime Monog. Corb. 76, f. 86,
1865. *Cuba, West Indies.*
14. **P. cuneatum**, Bielz.
Bielz. Moll. Siebenb. 1863. *Transylvania.*
15. **P. duplicatum**, C. Pfeiffer.
Cyclas duplicata, C. Pfeiffer, System. Arnord. 230, 1821.
Musculium duplicatum, H. & A. Adams, Gen. Rec. Moll. ii,
451, 1858.
Pisum duplicatum, H. & A. Adams, Loc. sup. cit. ii, 660,
1858.
Pisidium duplicatum, C. Pfeiffer, Prime Cat. Corb. 17,
1863. *Germany.*
16. **P. Ferroense**, Mörch, Cat. Suenson, 43, 1857.
Prime Cat. Corb. 17, 1863. *Farroe Islands.*
17. **P. ferrugineum**, Prime.
Proc. Soc. N. H. Bost. iv, 162, 1851. J. N. H. Bost. vi,
362, pl. xii, f. 8—10, 1852. Prime, Cat. Corb. 15, 1863.
Smith. Inst. Misc. Coll., Prime Monog. 71, f. 77, 78,
1865. *U. S. of America.*
18. **P. fuscum**, Parreys.
Haydinger, Berichte vii, 211, 1851. *Germany.*
19. **P. Gassiesanum**, Dupuy.
Gassies, Moll. Agen. 207, pl. ii, f. 11, 1849.
Pisidium Normandianum, Dupuy, Loc. sup. cit. 206, 1848.
Pisidium tetragonum, Normand, Cycl. Dépt. Nord. 5, 1854.
Pisum vitreum, Deshayes (pars), Brit. Mus. Cat. Conchif. 277,
1854.
Pisidium Baudonianum, de Cessac, Bull. Soc. Sci. Nat.
Creuse. ii, 1855.
Pisidium Gassiesianum, Dupuy, Baudon Pisid. Fr. 26, pl. i,
f. F, 1857. *France.*
20. **P. Gundlachi**, Arango. *Cuba, West Indies.*
21. **P. Harfordianum**, Prime. *Mendocino Co., California.*
22. **P. Henslowianum**, Jenyns.
Pera Henslowiana, Leach, in litt. in Mus. Brit. 1820.
Cyclas acuta, C. Pfeiffer, System. Arnord. 230, 1821.
Tellina Henslowana, Sheppard, Trans. Linn. Soc. Lond. xiv,
150, 1823.

- Cyclas appendiculata*, Turton, Man. 15, pl. i, f. 6, 1831.
Pisidium acutum, C. Pfeiffer, Wieg. Archiv. i, 230, 1831.
Pisidium Henslowianum, Jenyns, Trans. Phil. Soc. Cambr. iv, 308, pl. xxi, f. 6, 7, 1832.
Pera appendiculata, Leach, Moll. Brit. Synop. 292, 1852.
Pisidium Jayanum, Gassies, in litt. 1852.
Pisidium Dupuyanum, Normand, Cycl. Dépt. Nord, 5, 1854.
Pisidium solitarium, Gassies, in litt. 1855.
Pisidium pallidum, Gassies, Act. Soc. Linn. Bord. xx, 1855.
Pisidium Bonnafouxianum, de Cessac, Bull. Soc. Sci. Nat. Crense. ii, 1855.
Pisidium Jaudouinianum, Gassies, Act. Soc. Linn. Bord. xx, 1855.
Pisidium pictum, de Cessac in litt. 1855.
Pisum Henslowianum, Deshayes, Brit. Mus. Cat. Conchif. 278, 1854.
Pisidium Henslowianum, Jenyns, Baudon, Pisid. Fr. 45, pl. iv, f. F. 1857.
Musculium Henslowianum, H. and A. Adams, Gen. Rec. Moll. ii, 451, 1858.
Pisidium Henslowianum, Jenyns, Prime, Cat. Corb. 17, 1863. *Europe.*
23. P. insigne, Gabb. Amer. J. Conch. 69, pl. f. ii, 2, pl. iv, f. 10, 1868. *Fort Tejon, California.*
24. P. Jamaicense, Prime.
Cyclas pygmea, C. B. Adams, Contr. Conch. 44, 1849.
Pisum Adamsi, Deshayes, Brit. Mus. Cat. Conchif. 284, 1854.
Musculium pygmeum, H. and A. Adams, Gen. Rec. Moll. ii, 452, 1858.
Pisum pygmeum, H. and A. Adams, Loc. sup. cit. ii, 660, 1858.
Pisidium Jamaicense, Prime, Cat. Corb. 15, 1863. Smith. Inst. Misc. Coll. Prime, Monog. Corb. 70, f. 76, 1865. *Jamaica, West Indies.*
25. P. Moietessieranum, Paladilhe, Rev. Mag. Zool. 1866. *Marseilles, France.*
26. P. nitidum, Jenyns.
Cyclas pusilla, Turton, Conch. Brit. 16, pl. i, f. 7, 1831.
Pisidium nitidum, Jenyns, Trans. Phil. Soc. Cambr. iv, 304, pl. xx, f. 7, 8, 1832.
Cyclas nitida, Hanley, Descrip. Cat. 90, pl. xiv, f. 46, 1844.
Pisidium incertum, Normand, Cycl. Dépt. Nord. 6, 1854.
Pisum nitidum, Deshayes, Brit. Mus. Cat. Conchif. 277, 1854.

Pisidium nitidum. Jenyns, Baudon, Pisid. Fr. 23, pl. i, f. A. 1857.

Musculium nitidum, H. and A. Adams, Gen. Rec. Moll. ii, 451, 1858.

Pisidium nitidum, Jenyns, Prime, Cat. Corb. 17, 1863.

Europe.

27. P. Nov.-Eboracense, Prime, Ann. Lyc. N. H. N. Y. vi, 66, pl. i, f. 3, 1853.

Pisidium amplum, Ingalls in litt. 1855.

Musculium Nov.-Eboracense, H. and A. Adams, Gen. Rec. Moll. ii, 451, 1858.

Pisum Nov.-Eboracense, H. and A. Adams, Loc. sup. cit. ii, 660, 1858.

Pisidium Nov.-Eboracense, Prime, Cat. Corb. 14, 1863. Smith. Inst. Misc. Coll., Prime Monog. Corb. 67, f. 71. 1865.

U. S. of America.

28. P. Nov.-Zelandicum, Prime, Cat. Corb. 17, 1863. Ann. Lyc. N. H. N. Y. viii, 91, f. 39, 1864.

New Zealand.

29. P. obtusale, C. Pfeiffer.

Cyclas obtusalis, Lamarck, An. v, 559, 1818.

Pera gibba, Leach, in litt. in Mus. Brit. 1820.

Cyclas minima, Studer, Meissner. Anzeig. iii, 83, 1820.

Pisidium obtusale, C. Pfeiffer, System. Anord. 125, pl. v, f. 20, 21, 1821.

Cyclas gibba, Alder, Trans. N. H. Soc. Northumb. 1, 41, 1830.

Pisidium obtusale, Jenyns, Trans. Phil. Soc. Cambr. iv, 301, pl. xx, f. 1—3, 1832.

Cyclas ovalis, Nilsson, Trans. Phil. Soc. Cambr. iv, 1832.

Pisidium mininum, Studer, Nouv. Mém. Soc. Helv. Sc. Nat. 1, 25, 1837.

Pisidium ovale, Petit, J. Conchyl. ii, 421, 1851.

Pisum obtusale, Deshayes, Brit. Mus. Cat. Conchif. 279, 1854.

Pisidium obtusale, C. Pfeiffer, Baudon, Pisid. Fr. 18, pl. i, f. E, 1857.

Musculium obtusale, H. & A. Adams, Gen. Rec. Moll. ii, 452, 1858.

Pisidium obtusale, C. Pfeiffer, Prime, Cat. Corb. 17, 1863.

Europe.

30. P. occidentale, Newcomb. Proc. Ac. N. S. Calif. ii, 94, 1863. Smith. Inst. Misc. Coll., Prime Monog. Corb. 73, 1865. *San Francisco, California.*

31. P. parvulum, Benson in litt. Prime, Cat. Corb. 17, 1863.

India.

- 32. *P. personatum*, Malm.** *Iceland and Sweden.*
- 33. *P. pulchellum*, Deshayes.**
Cyclas pulchella, D'Orbigny (non Hanley), Mag. Zool. 1835.
 D'Orb. Voy. 568, pl. 83, f. 8—10, 1846.
Pisum pulchellum, Deshayes, Brit. Mus. Cat. Conchif. 283, 1854.
Musculium pulchellum, H. & A. Adams, Gen. Rec. Moll. ii, 452, 1858.
Sphærium pulchellum, Prime, Proc. Ac. N. S. Phila. 297, 1860.
Pisidium pulchellum, Deshayes (non Jenyns), Smith. Inst. Misc. Coll., Prime Monog. Corb. 70, 1865.
Uruguay, S. America.
- 34. *P. pusillum*, Jenyns.**
Tellina pusilla, Gmelin, Syst. Nat. 3231, 1789.
Cyclas fontinalis (pars), Draparnaud, Hist. Moll. 130, pl. x, f. 11, 12, 1805.
Pisidium fontinale, C. Pfeiffer, System. Anord. 125, pl. v, f. 15, 16, 1821.
Cyclas pusilla, Turton, Man. 16, pl. i, f. 7, 1831.
Pisidium pusillum, Jenyns, Trans. Phil. Soc. Cambr. iv, 302, pl. xx, f. 4—6, 1832.
Gallileja tenebrosa, Costa, Corrisp. Zool., 1839.
Pisidium roseum, Scholtz, Moll. Schl. 140, 1843.
Pisum pusillum, Deshayes, Brit. Mus. Cat. Conchif. 277, 1854.
Pisidium pusillum, Jenyns, Baudon, Pisid. Fr. 20, pl. i, f. C, 1857.
Musculium pusillum, H. & A. Adams, Gen. Rec. Moll. ii, 452, 1858.
Musculium roseum, H. & A. Adams, Loc. sup. cit. ii, 452, 1858.
Pisum roseum, H. & A. Adams, Loc. sup. cit. ii, 660, 1858.
Pisidium pusillum, Jenyns, Prime Cat. Corb. 16, 1863.
Europe.
- 35. *P. punctiferum*, Guppy.**
Cyclas punctifera, Guppy, Ann. Mag. N. H. 3d ser. xix, 160, 186—187. Proc. Sc. Assoc. Trinidad, 137, 1867.
Trinidad, W. Indies.
- 36. *P. retusum*, Prime, Proc. Zool. Lond. xxviii, 322, 1860.**
Honduras.
- 37. *P. rotundatum*, Prime, Proc. Bost. Soc. N. H. iv, 164, 1851. J. N. H. Bost. vi, 357, pl. xi, f. 19—21, 1852.**
Musculium rotundatum, H. & A. Adams, Gen. Rec. Moll. ii, 452, 1858.

- Pisum rotundatum*, H. & A. Adams, Loc. sup. cit. ii, 660, 1858.
- Pisidium rotundatum*, Prime, Cat. Corb. 15, 1863.
Smith. Inst. Misc. Coll., Prime Monog. Corb. 72, f. 81, 82, 1865.
U. S. of America.
38. **P. semen**, Menke, Moll. N. Holl. 40, 1843.
Pisum semen, Deshayes, Brit. Mus. Cat. Conchif. 284, 1854.
Musculium semen, H. & A. Adams, Gen. Rec. Moll. ii, 660, 1858.
New Holland.
39. **P. simile**, Prime, Cat. Corb. 15, 1863.
Smith. Inst. Misc. Coll., Prime Monog. Corb. 69, f. 74, 1865.
Guadeloupe, W. Indies.
40. **P. Steenbuchii**, Mörch.
Cyclas Steenbuchii, Möller, Kröyer. Natur. Tids. iv, 76, 1842.
Sphærium Steenbuchii, Deshayes, Brit. Mus. Cat. Conchif. 264, 1854.
Pisidium Steenbuchii, Mörch, Prod. Moll. Grönl. 19, 1857.
Prime Cat. Corb. 17, 1863.
Greenland.
41. **P. subtruncatum**, Malm. Sweden.
42. **P. supinum**, Schmidt, Zeit. Malak. 119, 1850.
Musculium supinum, H. & A. Adams, Gen. Rec. Moll. ii, 452, 1858.
Pisum supinum, H. & A. Adams, Loc. sup. cit. ii, 660, 1858.
Germany.
43. **P. ultramontanum**, Prime, Smith. Inst. Misc. Coll., Prime Monog. Corb. 75, f. 85, 1865. California.
44. **P. variabile**, Prime.
Cyclas nitida, Linsley (non Mighles), Am. J. Sci. xlviii, 276, 1845.
Pisidium variabile, Prime, Proc. Soc. N. H. Bost. iv, 163, 1851.
J. N. H. Bost. vi, 351, pl. xi, f. 7—9, 1852.
Pisidium grande, Whittemore, in litt., 1855.
Pisidium palustre, Lewis, in litt.
Musculium variabile, H. & A. Adams, Gen. Rec. Moll. ii, 452, 1858.
Pisum variabile, H. & A. Adams, Loc. sup. cit. ii, 660, 1858.
Pisidium variabile, Prime, Cat. Corb. 14, 1863.
Smith. Inst. Misc. Coll., Prime Monog. Corb. 66, f. 69, 70, 1865.
U. S. of America.
45. **P. ventricosum**, Prime, Proc. Soc. N. H. Bost. iv, 68, 1851.
Musculium ventricosum, H. & A. Adams, Gen. Rec. Moll. ii, 452, 1858.

- Pisum ventricosum*, H. & A. Adams, Loc. sup. cit. ii, 660, 1858.
Pisidium ventricosum, Prime, Cat. Corb. 15, 1863.
 Smith. Inst. Misc. Coll., Prime Monog. Corb. 72, f. 79,
 80, 1865. *U. S. of America.*

46. *P. Virginicum*, Bourguignat.

- Tellina Virginica*, Gmelin, Syst. Nat. 3236, pl. clix, f. 15,
 1788.
Tellina pusilla (pars), Dillwyn, Cat. ii, 106, 1817.
Cyclas dubia, Say, Nichols. Encycl. 1st Amer. edit. ii, 4, pl.
 i, f. 10, 1817.
Physemoda æqualis, Rafinesque, Ann. gen. Sci. phys. et nat.
 v, 319, 1820.
Cyclas Virginica, Férussac, Mag. Zool. v, 1835.
Cyclas dubia, Say, Gould Invert. 75, f. 56. 1841.
Pisidium abruptum, Haldeman, Proc. Ac. N. S. Phila. i, 53,
 1841.
Pisidium dubium, Haldeman, Loc. sup. cit. i, 103, 1841.
Cyclas dubiosa, Catlow & Reeve, Nomencl. 29, 1845.
Pisidium dubium, Say, J. N. H. Bost. vi, 354, pl. xi, f. 4—6,
 1852.
Pisidium æquale, Rafinesque, Loc. sup. cit. vi, 367, 1852.
Pisidium Virginicum, Bourguignat, Rev. Mag. Zool., 1854.
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Pisidium Virginicum, Bourguignat, Prime, Cat. Corb. 13,
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TO BE EXCLUDED.

- Pisidium abruptum*, Haldeman. = *P. Virginicum*.
Pisidium acutum, Pfeiffer. = *P. Henslowianum*.
Pisum Adamsi, Deshayes. = *P. Jamaicense*.
Physemoda æqualis, Rafinesque. = *P. Virginicum*.
Pisidium altile, Anthony, = *P. compressum*.
Pisidium amplum, Ingalls. = *P. Nov.-Eboracense*.

- Pisid. angulatum*, Prime. = *P. Chilense*.
Pera appendiculata, Leach. = *P. Henslowianum*.
Pisidium arcuatum, Prime. = *P. abditum*.
Pisid. Australe, Philippi, (non Deshayes). = *P. Casertanum*.
Pisum Bahiense, Deshayes. = *Sph. Bahiense*.
Pisidium Baudonianum, de Cessac. = *P. Gassiesanum*.
Pisid. Bonnafoxianum, de Cessac. = *P. Henslowianum*.
Pisid. caliculatum, Dupuy. = *P. Casertanum*.
Pisid. cicer, Prime. = *P. compressum*.
Pisid. cinereum, Alder. = *P. Casertanum*.
Pisid. cornea, Verany. = *Sph. corneum*.
Pisum Creplini, Deshayes. = *Sph. Creplini*.
Pisid. Dingoli, Bivona. = *Sph. Dingoli*.
Pisid. depressum, Pfeiffer ; undescribed.
Pisid. dubium, Haldeman. = *P. Virginicum*.
Pisid. Dupuyanum, Normand. = *P. Henslowianum*.
Pisum edentulum, Deshayes. = *Sph. striatinum*.
Pisum ferrugineum, Deshayes. = *Sph. ferrugineum*.
Pera fluviatilis, Leach. = *P. amnicum*.
Pisid. fontinale, Pfeiffer. = *P. pusillum*.
Pera gibba, Leach. = *P. obtusale*.
Pisid. globulosum, Gassies. = *P. Casertanum*.
Pisid. grande, Whittemore. = *P. variabile*.
Pisid. Grateloupianum, Normand. = *P. amnicum*.
Pisid. incertum, Normand. = *P. nitidum*.
Pisid. inflatum, Megerle. = *P. amnicum*.
Pisid. intermedium, Gassies. = *P. amnicum*.
Pisid. iratianum, Dupuy. = *P. Casertanum*.
Pisid. Jaudonianum, Gassies. = *P. Henslowianum*.
Pisid. Jenynsi, Macgillivray. = *P. Casertanum*.
Pisid. Joannis, Macgillivray, = *P. Casertanum*.
Pisid. Kurtzi, Prime. = *P. abditum*.
Pisid. lenticulare, Dupuy. = *P. Casertanum*.
Pisid. limosum, Gassies. = *P. Casertanum*.
Pisid. Lumsternianum, Forbes. = *P. Casertanum*.
Pisum maculatum, Deshayes. = *Sph. Bahiense*.
Pisid. minimum, Studer. = *P. obtusale*.
Pisid. minus, Stimpson. = *P. abditum*.
Pisum modioliforme, Deshayes. = *Sph. modioliforme*.
Pisid. Moquinianum, Bourguignat. = *Sph. modioliforme*.
Pisid. Normandianum, Dupuy. = *P. Gassiesanum*.
Pisid. notatum, Prime. = *P. abditum*.
Pisid. obliquum, Pfeiffer. = *P. amnicum*.
Pisid. obscurum, Prime. = *P. abditum*.
Pisid. ovale, Petit. = *P. obtusale*.

- Pisid. pallidum*, Gassies. = *P. Henslowianum*.
Pisid. palustre, Porro. = *P. amnicum*.
Pisid. palustre, Lewis. = *P. variabile*.
Pisid. parasiticum, Parreys. = *Sph. ferrugineum*.
Pisid. perpusillum, Gärtner. = *Sph. perpusillum*.
Pisid. pictum, de Cessac. = *P. Henslowianum*.
Pisid. planum, Pfeiffer. = *P. Casertanum*.
Pisid. plenum, Lewis. = *P. abditum*.
Pisid. pulchellum, Jenyns. = *P. Casertanum*.
Musculium pygmeum, H. and A. Adams. = *P. Jamaicense*.
Pisid. Recluzianum, Bourguignat. = ? not a *Pisidium*.
Pisid. regulare, Prime. = *P. abditum*.
Pisid. resartum, Ingalls. = *P. abditum*.
Pisid. roseum, Scholtz. = *P. pusillum*.
Pisid. rotundum, de Cessac. = *P. Casertanum*.
Pisid. rubellum, Prime. = *P. abditum*.
Pisid. rubrum, Lewis. = *P. abditum*.
Pisid. sinuatum, Bourguignat. = *P. Casertanum*.
Pisid. solitarium, Gassies. = *P. Henslowianum*.
Pisid. splendidum, Parreys. = a *Nucula*.
Pisid. Stabileii, Schmidt. = *P. Casertanum*.
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Pisum Veatleyii, Deshayes. = *Sph. Veatleyii*.
Pisid. vitreum, Verany. = *P. Casertanum*.
Pisid. zonatum, Prime. = *P. abditum*.

ERRATUM.—Under synonymy of genus *Sphærium*, page 150, place "*Euglesa*, Leach, in litt. in Mus. Brit. 1818—20."

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CHECK LIST

OF THE

SHELLS OF NORTH AMERICA.

CYCLADES.

BY

TEMPLE PRIME.

[NOTE.—In the following list the species not marked are found living in the United States. F. signifies that they are found fossil. C. refers to Cuba; C. A. to Central America; H. to Honduras; J. to Jamaica; M. to Mexico; P. to Panama; Y. to Yucatan.]

- | | |
|--|---|
| 1. <i>Pisidium abditum</i> , <i>Hald.</i> | 29. <i>Sphærium nobile</i> , <i>Gould.</i> |
| 2. <i>Pisidium Adamsi</i> , <i>Pr.</i> | 30. <i>Sphærium occidentale</i> , <i>Pr.</i> |
| 3. <i>Pisidium æquilaterale</i> , <i>Pr.</i> | 31. <i>Sphærium partumium</i> , <i>Say.</i> |
| 4. <i>Pisidium arcuatum</i> , <i>Pr.</i> F. | 32. <i>Sphærium patellum</i> , <i>Gould.</i> |
| 5. <i>Pisidium compressum</i> , <i>Pr.</i> | 33. <i>Sphærium pygmeum</i> , <i>Adams.</i> J. |
| 6. <i>Pisidium contortum</i> , <i>Pr.</i> F. | 34. <i>Sphærium rhomboideum</i> , <i>Say.</i> |
| 7. <i>Pisidium ferrugineum</i> , <i>Pr.</i> | 35. <i>Sphærium rosaceum</i> , <i>Pr.</i> |
| 8. <i>Pisidium novi-eboraci</i> , <i>Pr.</i> | 36. <i>Sphærium securis</i> , <i>Pr.</i> |
| 9. <i>Pisidium retusum</i> , <i>Pr.</i> H. | 37. <i>Sphærium solidulum</i> , <i>Pr.</i> |
| 10. <i>Pisidium rotundatum</i> , <i>Pr.</i> | 38. <i>Sphærium sphæricum</i> , <i>Anth.</i> |
| 11. <i>Pisidium tenellum</i> , <i>Gould.</i> | 39. <i>Sphærium stamineum</i> , <i>Conr.</i> |
| 12. <i>Pisidium variable</i> , <i>Pr.</i> | 40. <i>Sphærium striatinum</i> , <i>Lam.</i> |
| 13. <i>Pisidium ventricosum</i> , <i>Pr.</i> | 41. <i>Sphærium subtransversum</i> , <i>Pr.</i> |
| 14. <i>Pisidium virginicum</i> , <i>Bgt.</i> | M |
| 15. <i>Sphærium acuminatum</i> , <i>Pr.</i> | 42. <i>Sphærium sulcatum</i> , <i>Lam.</i> |
| 16. <i>Sphærium aureum</i> , <i>Pr.</i> | 43. <i>Sphærium tenue</i> , <i>Pr.</i> |
| 17. <i>Sphærium bulbosum</i> , <i>Anth.</i> | 44. <i>Sphærium tenuistriatum</i> , <i>Pr.</i> |
| 18. <i>Sphærium cardissum</i> , <i>Pr.</i> | 45. <i>Sphærium transversum</i> , <i>Say.</i> |
| 19. <i>Sphærium dentatum</i> , <i>Hald.</i> | 46. <i>Sphærium triangulare</i> , <i>Say.</i> M |
| 20. <i>Sphærium eburneum</i> , <i>Anth.</i> | 47. <i>Sphærium truncatum</i> , <i>Lin.</i> |
| 21. <i>Sphærium elevatum</i> , <i>Hald.</i> | 48. <i>Sphærium Veatleyi</i> , <i>Adams.</i> J. |
| 22. <i>Sphærium emarginatum</i> , <i>Pr.</i> | |
| 23. <i>Sphærium fabale</i> , <i>Pr.</i> | 49. <i>Cyrena californiensis</i> , <i>Pr.</i> |
| 24. <i>Sphærium flavum</i> , <i>Pr.</i> | 50. <i>Cyrena caroliniensis</i> , <i>Lam.</i> |
| 25. <i>Sphærium fuscum</i> , <i>Rafin.</i> | 51. <i>Cyrena cubensis</i> , <i>Pr.</i> C. |
| 26. <i>Sphærium gracile</i> , <i>Pr.</i> | 52. <i>Cyrena Cumingii</i> , <i>Desh.</i> C. A. |
| 27. <i>Sphærium Jayanum</i> , <i>Pr.</i> | 53. <i>Cyrena densata</i> , <i>Conr.</i> F. |
| 28. <i>Sphærium maculatum</i> , <i>Mor.</i> Y. | 54. <i>Cyrena floridana</i> , <i>Conr.</i> |
| | 55. <i>Cyrena insignis</i> , <i>Desh.</i> |

- | | |
|---|--|
| 56. <i>Cyrena maritima</i> , Adams. P. | 63. <i>Cyrena placens</i> , Hanley. C. A. |
| 57. <i>Cyrena mexicana</i> , Sowb. | 64. <i>Cyrena radiata</i> , Hanley. C. A. |
| 58. <i>Cyrena moreauensis</i> , Meek &
Hayden. F. | 65. <i>Cyrena salmacida</i> , Morelet. C. A. |
| 59. <i>Cyrena nebraskensis</i> , Pr. F. | 66. <i>Cyrena sordida</i> , Hanley. C. A. |
| 60. <i>Cyrena occidentalis</i> , Meek &
Hayden. F. | 67. <i>Corbicula convexa</i> , Desh. C. A. |
| 61. <i>Cyrena olivacea</i> , Cpr. C. A. | 68. <i>Corbicula truncata</i> , Pr. F. |
| 62. <i>Cyrena panamensis</i> , Pr. C. A. | 69. <i>Corbicula ventricosa</i> , Pr. M. |

(9)

ebus 5 angustis fusco-pilosis longioribus ornatus, basi impressus; columella breviter recedens, compressa, alba, callum tenuem, album emittens; apertura vix obliqua, semicircularis; perist. tenue, margine dextro breviter reflexo, basali cum columellâ angulum formante. Opere. ?

Shell subglobose, thin, pellucid, pale horn colored, with epidermis having closely set spiral lines of short hairs, beneath the epidermis shining, delicately striate, and with microscopic spiral lines; spire slightly elevated, apex rather pointed and tinged with reddish color; whorls $4\frac{1}{2}$ rather convex, the last rounded and ornamented with five spiral series of longer dark hairs, base impressed; columella shortly receding, compressed, and with thin white callus over the umbilical region; aperture scarcely oblique, semicircular; perist. thin, the right margin slightly reflected, basal margin forming an angle with the columella.

Diam. maj. 9, min. 7, mill. Alt. 5, mill.

Habitat. Newcastle, in the Parish of St. Andrews, Jamaica, West Indies, at an elevation of about 4,000 feet above the sea.

Remarks. This interesting species is very unlike any other hitherto found in Jamaica. It has the hirsute character of *Alcadia hirsuta* C. B. Adams, of that island, and in that respect, as well as in general form has, to a remarkable degree, the aspect of a *Schasicheila*, without, however, the incised peristome.

I am indebted for this, as well as many other species, to my valued correspondent Mr. C. P. Gloyne, R. E., who refers to it, the specific name having been communicated by me, in his Notes on the Land Shells of Jamaica, Jour. de Conchyliologie XII, p. 44. January, 1872.

ann. N.Y. A.H. x 6/ 1872

XIII.—Notes on specimens of *Corbiculadæ* in the Cabinet of the Jardin des Plantes at Paris, and on the authorship of the *Encyclopédie Méthodique*.

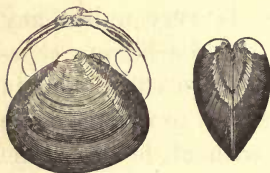
BY TEMPLE PRIME.

Read May 6th, 1872.

I had the opportunity, in 1871, of making notes on some of the *Corbiculadæ* in the Jardin des Plantes, which I am induced to publish in the hope that their perusal may lead to the correction of some errors prevalent in regard to the species of this family.

Cyrena orientalis, LAMARCK.

This species, described in 1818*, is represented by a single valve, which I found to agree with the shell which I published† under the name of *Corbicula Japonica*.—Lamarck's species is represented as coming from China, mine is a native of Japan.



Corbicula Japonica.

We cannot, however, decide as yet positively that the *orientalis* and the *Japonica* are identical, for the reason that Lamarck refers to his type as being in his own Cabinet, which is at present at Geneva.

Cyrena truncata, LAMARCK.

Lamarck in his description‡ of this fossil species stated that it came from the State of New York. There is one valve of the *truncata* which evidently belongs to the Tertiary; it is intermediate between *antiqua* and *cuneiformis* of Europe.

As already stated on a previous occasion§, I doubt the fact of this species having been found in N. Y., but think

* Lam. An. v, 552, 1818.

† Ann. Lyc. N. H. N. Y. viii, 68, f. 15, 1864.

‡ Lam. An. v, 553, 1818.

§ Smith. Inst. Misc. Coll; Prime, Monog. Corb. 7, 1865.

that, if it came from America at all, which I hardly believe, as it is so unlike any of our known fossil *Cyrenæ* or rather *Corbiculæ*, it is a native of one of our Southern States.

The *truncata* is labelled as having been purchased from the collection of *Valenciennes* (the father of the late Prof. Valenciennes).

Cyrena oblonga, QUOY.

M. Deshayes has stated* that this species, a native of Vanikoro, has a sinus. I called attention† to this fact, remarking that it was the only instance on record of a non-American *Cyrena* possessing a sinus, qualifying my statement, however, with the reservation, that I had never seen any specimen of *oblonga*.

On an inspection of the specimen of the *oblonga* at the Jardin des Plantes, I detected at once that the so-called *Cyrena* was nothing more or less than a *Glaucanome*.

I am enabled consequently to uphold the proposition, that none of the non-American *Cyrenæ* have an unbroken pallial impression.

Cyrena placens, HANLEY.

Elsewhere‡ I have quoted Mr. Hanley to the effect that there was a specimen of this species at the Jardin des Plantes. As the *placens* is not personally known to me, I sought for the specimen in question with some eagerness; unfortunately, it was not to be found.

Note on the "Encyclopédie Méthodique."

Being frequently obliged to consult this work, I was much puzzled to know whether the name of the genus, in many cases a new one, at the top of the plate, was the only evidence of the publication of the genus, or whether there

*Lam. An. Desh., edit.

†Ann. Lyc. N. H. N. Y., viii, 420, 1867.

‡Smith. Inst. Misc. Coll. Prime, Monog. Corb. 21, 1865.

existed some published record of the same not so widely distributed as the plates of the *Encyclopédie*, and to clear up my uncertainty I entered into correspondence with M. Crosse the manager of the *Journal de Conchyliologie*.

M. Crosse wrote me that to make the information the more authentic he had consulted M. Deshayes, who had been one of the contributors to the *Encyclopédie Méthodique*. M. Deshayes sent him the following, which I have translated.

"We owe to Bruguière all the plates of Natural History of the *Encyclopédie Méthodique* relating to the *Vers*, except the last hundred for which we are indebted to Lamarck. The names of the genera printed at the top of the plates are the only indications which exist relating to these useful creations, which the author would have placed on record in text, had not a premature death prevented him from so doing. With reference to the existing text, Bruguière published one volume, which ends with the genus *Conus*. It was in 1828 that I was entrusted with the finishing of this text; my first volume commences with a supplement to the letters a, b, c; it was published in 1830; my second volume is of 1832; so that the text of the *Encyclopédie Méthodique* concerning Mollusca is composed of three volumes, one by Bruguière and two by me." (Extract from a letter addressed to M. H. Crosse by M. Deshayes, Nov. 24th, 1869.)

6.

CATALOGUE

OF THE SPECIES OF

CORBICULADAE

IN THE COLLECTION OF TEMPLE PRIME,

NOW FORMING PART OF

THE COLLECTION OF THE MUSEUM

OF COMPARATIVE ZOOLOGY

AT CAMBRIDGE, MASSACHUSETTS.

PREPARED BY TEMPLE PRIME

In 1895.

CATALOGUE

OF THE SPECIES OF

CORBICULADAE

IN THE COLLECTION OF TEMPLE PRIME,

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OF COMPARATIVE ZOOLOGY

AT CAMBRIDGE, MASSACHUSETTS.

PREPARED BY TEMPLE PRIME

IN 1895.

CORBICULA.

America.

✓ 1. CORBICULA LIMOSA, Deshayes.

Smithson. Monogr.

- a. Rivers of Eastern Uruguay.
- b. *Cyclas variegata*, d'Orbigny. Rivers of Eastern Uruguay.
(Ex auctore, fide Cuming.)
- c. *Corbicula semisulcata*, Deshayes. South America. (Ex auctore.)
- d. *Corbicula perplexa*, Prime. South America.

2. CORBICULA CUNEATA, Jonas.

Smithson. Monogr.

Orinocco river. (Ex auctore.)

3. CORBICULA CONVEXA, Deshayes.

Smithson. Monogr.

Mazatlan. (Ex auctore.)

4. CORBICULA ROTUNDA, Prime.

Smithson. Monogr.

Surinam river.

5. CORBICULA PARANENSIS, Deshayes.

Smithson. Monogr.

Parana river.

6. CORBICULA OBSOLETA, Deshayes.

Ann. N. Y. Lyceum IX.

a. Uruguay. (Ex auctore.)

b. *Corbicula Amazonica*, Anthony. The Amazon. (Ex auctore.)

China.

7. CORBICULA LARGILLIERTI, Deshayes.

Ann. N. Y. Lyceum VIII.

a. Yang-tse-Kiang river. (From the Largilliert collection, from which Philippi described the species.)

b. *Corbicula sulcatina*, Deshayes. China. (Ex auctore.)

- c. *Corbicula Chemnitziana*, Prime. China.
- d. *Corbicula vulgaris*, Prime. China.

8. CORBICULA WOODIANA, Deshayes.

Ann. N. Y. Lyceum VIII.

- a. China. (Identified by Lea, the original describer.)
- b. *Corbicula Primeana*, Mörch. China. (Ex auctore.)

9. CORBICULA NITENS, Deshayes.

Philippi Abbild.

Yang-tse-Kiang river. (From the Largilliert collection, from which Philippi described the species.)

10. CORBICULA PRIMEANA, Morelet.

Ann. N. Y. Lyceum VIII.

- a. Che-Fou river, in the north of China. (Ex auctore.)
- b. *Corbicula pexata*, Prime. Fuh-Chan river.

11. CORBICULA LUTEA, Morelet.

Ann. N. Y. Lyceum VIII.

China. (Ex auctore.)

✓ 12. CORBICULA FLUMINEA, Deshayes.

Prime Identification, etc.

- a. Fuh-Chan river.
- a'. Hong Kong. (Found there in the market, by Fred'k Stearns, 1889-90.)
- b. China. (Müller's type; from the Museum at Copenhagen.)
- c. *Corbicula triangularis*, Deshayes. China. (Ex auctore.)
- d. *Corbicula Mülleriana*, Prime. Fuh-Chan river.
- e. *Corbicula Pfeifferiana*, Prime. China.

13. CORBICULA INSULARIS, Prime.

Ann. N. Y. Lyceum VIII.

Island of Formosa.

 India.

14. CORBICULA TRIGONA, Deshayes.

Ann. N. Y. Lyceum VIII.

- a. Pondicherry. (Ex auctore.)
- b. *Corbicula striatella*, Deshayes. Pondicherry. (Ex auctore.)
- c. *Corbicula violacea*, Prime. India.
- d. *Corbicula consanguinea*, Prime. India.

15. CORBICULA FUSCATA, Deshayes.

Prime Identification, etc.

Corbicula imperialis, Prime. Pondicherry.

✓ 16. CORBICULA OCCIDENS, Benson.

Ann. N. Y. Lyceum VIII.

Bareilly, Bengal. (Ex auctore, fide Cuming.)

a. *Corbicula mediocris*, Prime. Hab?

17. CORBICULA BENGALICA, Deshayes.

Ann. N. Y. Lyceum VIII.

Bengal. (Ex auctore,)

18. CORBICULA QUILONENSIS, Benson.

Ann. N. Y. Lyceum VIII.

Quilon, Madras. (Ex auctore.)

19. CORBICULA AGRENSIS, Prime.

Ann. N. Y. Lyceum VIII.

Agra.

20. CORBICULA SUBRADIATA, Prime.

Ann. N. Y. Lyceum VIII.

Agra.

21. CORBICULA PARVULA, Prime.

Ann. N. Y. Lyceum VIII.

India.

 Japan.

22. CORBICULA MANCHURICA, A. Adams.

Japan. (Ex auctore, fide Crosse.)

23. CORBICULA ORIENTALIS, Deshayes.

Prime Identification, etc.

Japan.

- a. *Corbicula Japonica*, Prime. Japan.
- b. *Corbicula Martensii*, Clessin. Tokyo. (Found there in the market, by Fred'k Stearns, 1889-90. Japanese name, Shijime-Kai.)
- c. *Yokohama*. (Collected on tide flats by Fred'k Stearns, 1889-90.)
- d. *Kanagana*. (Collected on mud flats by Fred'k Stearns, 1889-90.)

24. **CORBICULA LEANA**, Prime.

Ann. N. Y. Lyceum VIII.

Japan.

24'. **CORBICULA STRAMINEA**, Reinhardt.

Martini & Chemnitz, 2d edition.

Kishu coast. (Collected on mud flats by Fred'k Stearns,
1889-90.)

Further India.25. **CORBICULA AMMIRALIS**, Prime.

Ann. N. Y. Lyceum VIII.

Saigon, Cambodia.

26. **CORBICULA LAMARCKIANA**, Prime.

Ann. N. Y. Lyceum VIII.

Laos mountains, Cambodia.

27. **CORBICULA BLANDIANA**, Prime.

Ann. N. Y. Lyceum VIII.

Laos mountains, Cambodia.

28. CORBICULA LINNEANA, Prime.

Ann. N. Y. Lyceum VIII.

Laos mountains, Cambodia.

29. CORBICULA LYDIGIANA, Prime.

Ann. N. Y. Lyceum VIII.

Siam.

a. *Corbicula erosa*, Prime. Cambodia.b. *Corbicula Pisidiiformis*, Prime. Siam.c. *Corbicula Moreletiana*, Prime. Cambodia.

30. CORBICULA LARNAUDIERY, Prime.

Ann. N. Y. Lyceum VIII.

Siam.

31. CORBICULA CASTANEA, Morelet.

Morelet Series conchyliologiques pl. XVI.

Cochinchina. (Ex auctore.)

32. CORBICULA LEVISCULA, Prime.

Ann. N. Y. Lyceum VIII.

Cochinchina.

33. CORBICULA MALACCANA, Deshayes.

Ann. N. Y. Lyceum VIII.

Malacca. (Ex auctore.)

34. **CORBICULA CONSULARIS**, Prime.

Ann. N. Y. Lyceum VIII.

Malacca.

35. **CORBICULA RHOMBOIDEA**, Prime.

Ann. N. Y. Lyceum VIII.

Malacca.

Australasian.

36. **CORBICULA BARONIALIS**, Prime.

Ann. N. Y. Lyceum IX.

Moreton Bay, Queensland.

37. **CORBICULA NEPEANSIS**, Deshayes.

Lesson Voy. Coquille.

Nepean bay, Kangaroo island, South Australia (Ex Cuming Collection.)

38. **CORBICULA PROLONGATA**, Prime.

Journal de Conchyl. X.

Eastern Australia.

39. **CORBICULA AUSTRALIS**, Deshayes.

Wood, Index test. Suppl't.

Australia. (Ex Cuming Collection.)

a. Patterson river, New South Wales.

40. **CORBICULA ANGASI**, Prime.

Journal de Conchyl. XII.

Murray river, South Australia.

41. **CORBICULA MINOR**, Prime.

Ann. N. Y. Lyceum VIII.

Australia.

42. **CORBICULA BRUNNEA**, Prime.

Ann. N. Y. Lyceum VIII.

Scamander river, Tasmania.

Malaysia.

✓ 43. CORBICULA CUMINGII, Deshayes.

Ann. N. Y. Lyceum VIII.

Philippines. (Ex auctore.)

- a. *Corbicula squalida*, Deshayes. Philippines. (Ex auctore.)
- b. *Corbicula notata*, Prime. Philippines.
- c. *Corbicula Crosseana*, Prime. Philippines.
- d. *Corbicula venustula*, Prime. Philippines.
- e. a variety, Philippines.

44. CORBICULA SAYANA, Prime.

Ann. N. Y. Lyceum VIII.

Philippines.

45. CORBICULA MANILLENSIS, Prime.

Cyrena fluviatilis, Philippi.

Philippi Abbild.

Manilla.

46. CORBICULA TUMIDA, Deshayes.

Ann. N. Y. Lyceum VIII.

Borneo. (Ex auctore.)

Java.

47. CORBICULA COLONIALIS, Prime.

Ann. N. Y. Lyceum VIII.

Java.

48. CORBICULA PULCHELLA, Deshayes.

Mousson Moll. Java.

Java.

49. CORBICULA DUCALIS, Prime.

Ann. N. Y. Lyceum VIII.

Java.

50. CORBICULA GRACILIS, Prime.

Journal de Conchyl. X.

Java.

Africa.

- ✓ 51. CORBICULA AFRICANA, Deshayes.

Ann. N. Y. Lyceum VIII.

Cape Natal, South Africa.

- a. Umpingano river, South Africa.

52. CORBICULA ASTARTINA, Martens.

Malak. Bl. 1859,

Lake Nyassa.

53. CORBICULA INÆQUILATERALIS, Prime.

Ann. N. Y. Lyceum VIII.

Africa.

Asiatic Turkey and Egypt.

54. CORBICULA PUSILLA, Deshayes.

Philippi Abbild.

The Nile. (Ex Collection of Parreys, the original describer.)

55. CORBICULA COR, Deshayes.

Prime Identification etc.

Yeni, 25 miles east of Antioch.

- a. Lake Homs, Syria.
- b. Orontes river, Antioch.
- c. the Tigris.

✓ 56. CORBICULA FLUMINALIS, Deshayes.

Prime Identification etc.

the type, Syria.

- a. *Corbicula Saulcyi*, Bourguignat. the Tigris.
 - b. *Corbicula difficilis*, Prime. Egypt.
 - c. *Corbicula radiata*, Deshayes. Upper Nile. (Ex Collection of Parreys, the original describer.)
 - d. *Corbicula rivalis*, Deshayes. Hab? (Ex Largilliert Collection.)
 - e. *Corbicula purpurea*, Prime. the Tigris.
 - f. *Corbicula purpurea*, Prime. Antioch.
 - g. *Corbicula Delessertiana*, Prime. the Pyramids.
-

57. CORBICULA STIMPSONIANA, Prime.

Ann. N. Y. Lyceum VIII.

Hab.?

58. CORBICULA SOLIDULA, Prime.

Ann. N. Y. Lyceum VIII.

Hab.?

BATISSA.

1. BATISSA LENTICULARIS, Deshayes.

Proc. Zool. XXII.

Philippines. (Ex auctore.)

2. BATISSA LÆVIGATA, Schumacher.

Bull. Mus. Comp. Zool. Harvard V.

Hab. ?

- a. *Batissa Keraudrenia*, Deshayes. Waigiou. (Ex Cuming Collection.)
- b. *Batissa insignis*, Deshayes. Luzon. (Ex auctore.)
- c. *Batissa Childrenæ*, Deshayes. Philippines. (Ex Cuming Collection.)

3. BATISSA VIOLACEA, Deshayes.

Delessert Recueil.

Fejees. (Ex Cuming collection.)

- a. *Batissa tenebrosa*, Deshayes. Fejees. (Ex Cuming Collection.)
- b. *Batissa unioniformis*, Prime, Fejees.

4. BATISSA OBESA, Deshayes.

Voy. Sulphur.

Fejees. (Ex. Cuming Collection.)

5. **BATISSA CORBICULOIDES**, Deshayes.

Ann. N. Y. Lyceum VIII.

New Guinea. (Ex auctore.)

- a. *Batissa triquetra*, Deshayes. Philippines. (Ex auctore.)

6. **BATISSA SIMILIS**, Prime.

Ann. N. Y. Lyceum VIII.

Nicobar islands.

7. **BATISSA FORTIS**, Prime.

Ann. N. Y. Lyceum VIII.

Batissa ponderosa, Prime. New Caledonia.8. **BATISSA JAYANA**, Deshayes.

Trans. Amer. phil. soc. Philadelphia V.

Sumatra. (Ex Collection of Lea, the original describer.)

- a. *Batissa sphæricula*, Prime. Panimbang river, Java.
- b. *Batissa elegans*, Prime. Hab. ?
- c. *Batissa solidula*, Prime. Hab. ?

VELORITA.

1. VELORITA CYPRINOIDES, Gray.

Griffith Animal Kingdom 1834.

Philippines.

2. VELORITA COCHINENSIS, Hanley.

Ann. N. Y. Lyceum VIII.

Madras coast, India. (Identified by Hanley.)

3. VELORITA PARVULA, Prime.

Bull. Mus. Comp. Zool. Harvard V.

Hab. ?

CYRENA.

North America.

✓ 1. CYRENA CAROLINENSIS, Lamarck.

Smithson. Monogr.

Tampa bay.

a. Georgia.

✓ 2. CYRENA FLORIDANA, Conrad.

Smithson. Monogr.

Tampa bay. (Ex auctore.)

- a. Saracota bay.
- b. Boca Saca pass, Florida.
- c. *Cyrena protexta*, Conrad. Tampa bay. (Ex auctore.)

3. CYRENA MEXICANA, Sowerby.

Smithson. Monogr.

San Blas.

- a. Panama.
- b. Mazatlan.
- c. *Cyrena fragilis*, Deshayes. Mazatlan. (Ex auctore.)
- d. *Cyrena inæquilateralis*, Deshayes. Mazatlan. (Ex auctore.)

4. CYRENA OLIVACEA, Carpenter.

Smithson. Monogr.

Mazatlan. (Ex auctore, fide Cuming.)

5. CYRENA GERMANA, Prime.

Ann. N. Y. Lyceum VIII.

Panaco river, near Tampico, Mexico.

6. CYRENA TRIANGULA, v. d. Busch.

Smithson. Monogr.

Tamatico river, Mexico.

7. CYRENA ACUTA, Prime.

Smithson. Monogr.

Central America.

8. CYRENA MARITIMA, C. B. Adams.

Smithson. Monogr.

Panama. (Ex auctore.)

8'. CYRENA PANAMENSIS, Prime.

Smithson. Monogr.

Cyrena inflata, Deshayes. Panama. (Ex auctore.)

9. CYRENA COLORATA, Prime.

Smithson. Monogr.

New Providence, Bahamas.

a. Inagua, Bahamas.

b. Walling's island, Bahamas.

10. CYRENA RADIATA, Hanley.

Smithson. Monogr.

Realлеjos, Nicaragua. (Identified by Hanley.)

a. Greytown.

b. Central America.

c. *Cvrena sordida*, Hanley. Balize.d. *Cvrena solida*, Philippi. Central America.e. *Cvrena exquisita*, Prime. Chepo river, Panama.

South America.

✓ 11. **CYRENA ARCTATA**, Deshayes.

Smithson. Monogr.

Lake Maracaibo.

12. **CYRENA MERIDIONALIS**, Prime.

Smithson. Monogr.

Peyta, Peru.

a. *Cyrena ordinaria*, Prime. South America.

13. **CYRENA ANOMALA**, Deshayes.

Smithson. Monogr.

Caraccas, Peru. (Non-adult specimen.) (Ex auctore.)

14. **CYRENA FONTAINEII**, Carpenter.

Smithson. Monogr.

Guyaquil, Ecuador.

15. **CYRENA FORTIS**, Prime.

Smithson. Monogr.

Ecuador.

16. **CYRENA TRIBUNALIS**, Prime.

Ann. N. Y. Lyceum IX.

Tecames river, Ecuador.

17. **CYRENA CHILINA**, Prime.

Ann. N. Y. Lyceum VIII.

Chile.

18. **CYRENA REGALIS**, Prime.

Smithson. Monogr.

Muertos island, Gulf of Uraba.

China.

19. **CYRENA BUSCHI**, Philippi.

Philippi Abbild III.

China.

India.

✓ 20. CYRENA BENGALENSIS, Lamarck.

Delessert Recueil.

Bengal, (Ex Cuming Collection.)

21. CYRENA CEYLONICA, Lamarck.

Martini & Chemnitz pl. XXXII, fig. 36.

Ceylon. (Ex Cuming Collection.)

22. CYRENA SIAMICA, Prime.

Ann. N. Y. Lyceum VIII.

Siam.

23. CYRENA BERNARDIANA, Prime.

Ann. N. Y. Lyceum VIII.

New Caledonia.

a. *Cyrena proxima*, Prime. Siam.

24. CYRENA GALATHEA, Reinhardt.

Mörsch Catalogue Kierulf Collection.

Nicobar Islands. (Ex Kierulf Collection.)

Australia.

25. CYRENA OVIFORMIS, Deshayes.

Proc. Zool. XXII.

Port Essington. (Ex auctore.)

26. CYRENA FALLAX, Deshayes.

Proc. Zool. XXII.

Australia. (Ex auctore.)

a. *Cyrena affinis*, Deshayes. Australia. (Ex auctore.)

27. CYRENA PLACIDA, Deshayes.

Proc. Zool. XXII.

Port Curtis, South Australia. (Ex auctore.)

28. CYRENA CYPRINIFORMIS, Prime.

Ann. N. Y. Lyceum VIII.

North Australia.

New Caledonia.

29. CYRENA SUBLOBATA, Deshayes.

Act. Soc. Linn. de Bordeaux XXIV.

New Caledonia. (Ex auctore.)

a. *Cyrena Caledonica*, Gassies. New Caledonia.

New Guinea.

30. CYRENA PAPUANA, Lesson.

Mag. de Zool. 1832.

New Guinea. (Ex Cuming Collection.)

31. CYRENA CYPRINOIDES, Quoy.

Voy. de l' Astrolabe.

New Guinea. (Ex Cuming Collection.)

Java.

32. CYRENA EXIMIA, Dunker.

Dunker Nov. conch. 1857.

Java. (Ex Cuming Collection.)

a. *Cyrena sinuosa*, Deshayes. Java. (Ex auctore.)b. *Cyrena regularis*, Prime. Hab.?

Philippine Islands.

33. CYRENA VENTRICOSA, Deshayes.

Proc. Zool. XXII.

Philippines. (Ex auctore.)

34. CYRENA MÖRCHIANA, Prime.

Ann. N. Y. Lyceum VIII.

Philippines.

35. CYRENA PONDEROSA, Prime.

Ann. N. Y. Lyceum IX.

Philippines.

36. CYRENA TRIANGULARIS, Metcalfe.

Ann. N. Y. Lyceum VIII.

Borneo. (Ex Cuming Collection.)

37. CYRENA SIMILIS, Deshayes.

Proc. Zool. XXII.

Borneo. (Ex auctore.)

38. CYRENA NITIDA, Deshayes.

Proc. Zool. XXII.

Borneo. (Ex auctore.)

a. *Cyrena lævis*, Prime. Borneo.

Sumatra.

39. CYRENA SUMATRENSIS, Sowerby.

Philippi Abbild. III.

Sumatra. (Ex Cuming Collection.)

40. CYRENA LAUTA, Deshayes.

Proc. Zool. XXII.

Hab. ? (Ex auctore.)

✓ 41. CYRENA SPHÆRICA, Prime.

Jl. Conchyl. X.

Hab. ?

42. CYRENA MACTRIFORMIS, Deshayes.

Cyrena mactroides, (preoc.) Deshayes. Proc.

Zool. XXII.

Hab. ? (Ex auctore.)

FOSSIL.

(TERTIARY.)

America.

43. CYRENA CALIFORNICA, Gutch.

Ryker's Pass, lat. 38. California. Pleiocene. (Ex auctore.)

Europe.

(BASIN OF PARIS.)

a. Cyrena proper.

44. CYRENA CHARPENTIERII, Deshayes.

Potiez et Michaud, Gallerie de Douai.

a. Epernay. (Ex auctore.)

b. Ermenonville. (Ex auctore.)

45. CYRENA COMPRESSA, Deshayes.

Lamarck, An. VI.

Mouy. (Ex auctore.)

46. **CYRENA COMPTA**, Deshayes.

Invert. Bassin de Paris 1857.

Jaigues. (Ex auctore.)

*b. Species allied to Corbicula.*47. **CYRENA SUBORBICULARIS**, Deshayes.

Invert. Bassin de Paris 1857.

Chalons-sur-Vesles. (Ex auctore.)

48. **CYRENA MIXTA**, Deshayes.

Invert. Bassin de Paris 1857.

Chalons-sur-Vesles. (Ex auctore.)

49. **CYRENA GRAVESII**, Deshayes.

Coquilles foss. Bassin de Paris 1824.

Cuise-la-Motte. (Ex auctore.)

50. **CYRENA VENERIFORMIS**, Deshayes.

Invert. Bassin de Paris 1857.

Chalons-sur-Vesles. (Ex auctore.)

51. **CYRENA AMYGDALINA**, Deshayes.

Invert. Bassin de Paris 1857.

Cuise-la-Motte. (Ex auctore.)

52. *CYRENA DEPERDITA*, Deshayes.

Coquilles foss. Bassin de Paris 1824.

- a. Cuise-la-Motte. (Ex auctore.)
- b. Saincenny. “ “
- c. Auvers. “ “
- d. Beauchamp. “ “

53. *CYRENA CRASSA*, Deshayes.

Coquilles foss. Bassin de Paris 1824.

- a. La Ferte-sous-Jouarre. (Ex auctore.)
- b. Auvers. (Ex auctore.)

54. *CYRENA BREVIUSCULA*, Deshayes.

Invert. Bassin de Paris 1857.

Damery. (Ex auctore.)

55. *CYRENA PISUM*, Deshayes.

Coquilles foss. Bassin de Paris 1824.

Houdan. (Ex auctore.)

56. *CYRENA CYCLADIFORMIS*, Deshayes.

Coquilles foss. Bassin de Paris 1824.

Houdan. (Ex auctore.)

57. *CYRENA OVALINA*, Deshayes.

Invert. Bassin de Paris 1857

Damery. (Ex auctore.)

58. *CYRENA TELLINELLA*, Férussac.

Férussac Hist. des Moll.

- a. Saincenny. (Ex Deshayes Collection.)
 b. Chauny. “ “ “

59. *CYRENA ANGUSTA*, Deshayes.

Invert. Bassin de Paris 1857.

Chalons-sur-Vesles. (Ex auctore.)

60. *CYRENA ANTIQUA*, Férussac.

Férussac Moll. terr. et fluv.

- a. Bernon. (Ex Deshayes Collection.)
 b. Soissons. “ “ “
 c. Epernay. “ “ “

61. *CYRENA FORBESI*, Deshayes.

Invert. Bassin de Paris 1857.

Saincenny. (Ex auctore.)

62. *CYRENA CUNEIFORMIS*, Férussac.

Férussac Moll. terr. et fluv.

- a. Braisne. (Ex Deshayes Collection.)
 b. Chalons-sur-vesles. “ “ “
 c. Saincenny. “ “ “

63. **CYRENA TRIGONA**, Deshayes.

Coquilles foss. Bassin de Paris 1824.

Disy. (Ex auctore.)

64. **CYRENA DESHAYESII**, Hébert.

Bull. Soc. géol. de France 1848.

Sernier. (Ex Deshayes Collection.)

65. **CYRENA ACUTANGULARIS**, Deshayes.

Invert. Bassin de Paris 1857.

Chalons-sur-vesles. (Ex auctore.)

SPHÆRIUM.

North America.

1. SPHÆRIUM SIMILE, Say.

Smithson. Monogr.

- a. Canada.
- b. Maine.
- c. Vermont.
- d. New Hampshire.
- e. Massachusetts.
- f. Rhode Island.
- g. Western New York.
- h. Westchester Co., N. Y.
- j. Pennsylvania.
- k. Ohio.
- l. Michigan.
- m. Wisconsin.
- n. Iowa.
- o. Minnesota.
- p. Alabama.
- q. *Cyclas gigantea*, Prime. Franklin Co., Pa.
- r. *Cyclas ponderosa*, Prime. Hab. ?

2. SPHÆRIUM STRIATINUM, Lamarck.

Smithson. Monogr.

- a. Upper Mackensie river.
- b. Hell Gate river, Washington territory.
- c. Quebec.
- d. Maine.
- e. Connecticut.
- f. Western New York.
- g. Westchester Co., N. Y.
- h. New Jersey.
- j. Pennsylvania.
- k. Maryland.
- l. Virginia.
- m. North Carolina.
- n. Georgia.
- o. Alabama.
- p. Michigan.
- q. Illinois.
- r. Indiana.
- s. Minnesota.
- t. Iowa.
- u. Kansas.
- v. California.

- w. *Cyclas tenuistriata*, Prime. Alabama.
- x. *Cyclas acuminata*, Prime. Hab.?
- y. *Cyclas inornata*, Prime. Illinois.
- z. *Cyclas simplex*, Prime. Illinois.
- a i. *Cyclas modesta*, Prime. Pennsylvania.
- b i. *Cyclas staminea*, Conrad. Alabama. (Ex auctore.)
- c i. *Cyclas fuscata*, Rafinesque. Ohio. (Ex auctore, fide
Haldeman.)
- d i. *Cyclas bulbosa*, Anthony. Arkansas. (Ex auctore.)
- e i. *Cyclas aurea*, Prime. Hab.?
- f i. *Cyclas solidula*, Prime. Ohio.
- g i. *Cyclas distorta*, Prime. Ohio.
- h i. *Sphærium Vermontanum*, Prime. Vermont.
- j i. *Cyclas emarginata*, Prime. Hab.?
- k i. *Cyclas flava*, Prime. Michigan.
- l i. *Cyclas triangularis*, Say. Mexico?

3. SPHÆRIUM RHOMBOIDEUM, Say.

Smithson. Monogr.

- a. Canada.
- b. New Brunswick.
- c. Massachusetts.
- d. Ohio.

- e. New York.
- f. Michigan.
- g. *Cyclas elegans*, C. B. Adams. Brattleboro, Vt. (Ex auctore.)

4. SPHÆRIUM FABALIS, Prime.

Smithson. Monogr.

- a. Connecticut.
- b. New York.
- c. Ohio.
- d. Pennsylvania.
- e. Michigan.
- f. Virginia.
- g. Tennessee.
- h. Georgia.
- j. Oregon.
- k. *Cyclas castanea*, Prime. Illinois.
- l. *Cyclas sulculosa*, Charpentier. Hab. ? (Ex auctore.)

5. SPHÆRIUM OCCIDENTALE, Prime.

Smithson. Monogr.

- a. Canada.
- b. Western New York.
- c. Manhattan Island, N. Y.

- d. New Jersey.
- e. Vermont.
- f. Michigan.
- g. Wisconsin.
- h. Ohio.
- j. Georgia.
- k. Alabama.
- l. Hell Gate river, Washington territory.
- m. Minnesota.
- n. *Sphærium tenue*, Prime. Maine.

6. SPHÆRIUM NOBILE, Gould.

Smithson. Monogr.

San Pedro, Ca. (Ex auctore.)

7. SPHÆRIUM PATELLA, Gould.

Smithson. Monogr.

Oregon. (Ex auctore.)

8. SPHÆRIUM PARTUMEIUM, Say.

Smithson. Monogr.

- a. Fort Pierre.
- b. Montreal.

- c. Maine.
- d. Massachusetts.
- e. Connecticut.
- f. Western New York.
- g. Staten Island, N. Y.
- h. Long Island, N. Y.
- j. New Jersey.
- k. Pennsylvania.
- l. Ohio.
- m. Alabama.
- n. Mississippi.
- o. South Carolina.
- p. Louisiana.
- q. Iowa.
- r. *Cyclas orbicularia*, Barrat. Connecticut. (Ex auctore.)
- s. *Cyclas mirabilis*, Prime. Georgia.
- t. *Cyclas cœrulea*, Prime. Massachusetts.
- u. *Cyclas eburnea*, Anthony. Arkansas. (Ex auctore.)
- v. *Cyclas Jayana*, Prime. Hab.?
- x. *Cyclas elevata*, Haldeman. Alabama. (Ex auctore.)
- y. *Cyclas pallida*, Charpentier. Florida. (Ex auctore.)

8. SPHÆRIUM TRANSVERSUM, Say.

Smithson. Monogr.

- a. Canada.
- b. Western New York.
- c. New Jersey.
- d. Pennsylvania.
- e. New Harmony, Indiana.
- f. Arkansas.
- g. Alabama.
- h. Florida.
- j. Wabash river.
- k. *Cyclas detruncata*, Prime. Schuylkill river.
- l. *Cyclas gracilis*, Prime. Ohio.
- m. *Cyclas constricta*, Anthony. Ohio. (Ex auctore.)
- n. *Sphærium contractum*, Prime. Big Prairie Creek, Alabama.
- o. *Sphærium contractum*, Prime, Mt. Carmel, Illinois.

10. SPHÆRIUM SECURIS, Prime.

Smithson. Monogr.

- a. Canada.
- b. Maine.
- c. Massachusetts.
- d. Rhode Island.

- e. Long Island, N. Y.
- f. Staten Island, N. Y.
- g. Michigan.
- h. *Cyclas cardissa*, Prime. Cambridge, Mass.
- j. *Cyclas crocea*, Lewis. Otsego Co., N. Y. (Ex auctore.)
- k. *Cyclas rosacea*, Prime. Schuylkill river.
- l. *Cyclas sphaerica*, Anthony. Ohio. (Ex auctore.)

II. SPHÆRIUM TRUNCATUM, Linsley.

Smithson. Monogr.

- a. Lake Champlain.
- b. Maine.
- c. Staten Island, N. Y.
- d. Ohio.
- e. Lake Huron.
- f. Minnesota.
- g. *Cyclas calyculata*, C. B. Adams. Vermont. (Ex auctore.)

12. SPHÆRIUM LENTICULA, Gould.

Smithson. Monogr.

- a. Carson's river, Ca. (Ex auctore.)
 - b. Oregon.
 - c. Klamath river.
 - d. Saguacho, Ca.
-

Europe.

13. SPHÆRIUM RIVICOLA, Lamarck.

Mem. Soc. des scie. phy. et nat. de Bordeaux 1854.

- a. France.
- b. Moravia.
- c. Carinthia.
- d. England.

14. SPHÆRIUM CORNEUM, Scopoli.

Mem. Soc. des scie. phy. et nat. de Bordeaux 1854.

- a. France. (Ex Baudon Collection.)
- b. Switzerland.
- c. Elbe river.
- d. Croatia.
- e. Bohemia.
- f. Russia.
- g. Dublin.
- h. Italy.
- j. Portugal.
- k. *Cyclas rivalis*, Draparnaud. France. (Ex Baudon Collection.)
- l. *Cyclas nucleus*, Studer. France.
- m. *Cyclas lutea*, Ziegler. Hungary.
- n. *Cyclas tumida*, Ziegler. Italy.
- o. *Cyclas globosa*, Megerle. Italy.

15. SPHÆRIUM SCALDIANUM, Normand.

Mem. Soc. des scie. phy. et. nat. de Bordeaux 1854.

- a. Escaut river. (Ex auctore.)
- b. *Cyclas citrina*, Normand. Escaut river. (Ex auctore.)

16. SPHÆRIUM SOLIDUM, Normand.

Mem. Soc. des scie. phy. et nat. de Bordeaux 1854.

Escaut river. (Ex auctore.)

17. SPHÆRIUM OVALE, Férussac.

Mem. Soc. des scie. phy. et nat. de Bordeaux 1854.

Bordeaux.

18. SPHÆRIUM TERVERIANUM, Dupuy.

Mem. Soc. des. scie. phy. et. nat. de Bordeaux 1854.

Gers, France. (Ex auctore.)

19. SPHÆRIUM CREPLINI, Dunker.

Zeitschrift Malak. 1845.

France.

20. SPHÆRIUM RYCKHOLTII, Normand.

Normand, Cyclades 1844.

- a. France. (Ex auctore.)
- b. *Cyclas stricta*, Normand. France. (Ex auctore.)

21. SPHÆRIUM JEANNOTTII, Normand.

Normand, Cyclades 1854.

France. (Ex auctore.)

22. SPHÆRIUM LACUSTRE, Férussac.

Rev. et Mag. de Zool. 1853.

a. France.

b. Italy.

c. Sicily.

d. *Cyclas calyculata*, Draparnaud. England.e. *Cyclas calyculata*, Draparnaud. France. (Ex Baudon Collection.)f. *Cyclas Perezii*, Villa. Spain. (Ex auctore.)

23. SPHÆRIUM MINERVÆ, Prime.

Tasmania. (Undescribed.)

FOSSIL.

(TERTIARY.)

France.

24. SPHÆRIUM CONCINNUM, Sowerby.

Edin. new philosophical Journal. 1829.

Fuveau.

25. SPHÆRIUM GARDANENSE, Mathéron.

Matheron Cat. method. 1842.

Fuveau.

LIMOSINA.

Central America.

1. LIMOSINA MACULATA, Morelet.

Smithson. Monogr.

Yucatan. (Ex auctore.)

2. LIMOSINA MERIDIONALIS, Prime.

Smithson. Monogr.

Panama.

3. LIMOSINA VEATLEYII, C. B. Adams.

Smithson. Monogr.

Jamaica. (Ex auctore.)

4. LIMOSINA PORTORICENSIS, Prime.

Smithson. Monogr.

Portorico.

a. Agabama river, Cuba.

5. LIMOSINA PARVULA, Prime.

Smithson. Monogr.

Humacao, Portorico.

6. LIMOSINA VIRIDANS, Prime.

Smithson. Monogr.

Guadaloupe

7. LIMOSINA BARBADENSIS, Prime.

Smithson. Monogr.

Barbadoes.

8. LIMOSINA CUBANA, Prime.

Smithson. Monogr.

Sabana de Roble, between Havana and Matanzas, Cuba.

- | | | |
|----|--------------------------|-------|
| a. | Agabama river, | Cuba. |
| b. | Esperanza, | " |
| c. | Punta de la Yaula, | " |
| d. | Enserrada de Corrientes, | " |
| e. | Catalina de Guarra, | " |
-

South America.

9. LIMOSINA BAHIENSIS, Spix.

Smithson. Monogr.

Bahia.

South Africa.

10. LIMOSINA FERRUGINEA, Krauss.

Krauss Moll. 1848.

Knysna river, the Cape.

PISIDIUM.

North America.

1. PISIDIUM VIRGINICUM, Bourguignat.

Smithson. Monogr.

- a. Quebec.
- b. Massachusetts.
- c. Western New York.
- d. Bronx river, N. Y.
- e. Ohio.
- f. Wisconsin.
- g. New Jersey.
- h. Pennsylvania.
- j. Georgia.
- k. Virginia.
- l. Maryland.
- m. Michigan.
- n. St. Ignace Island, Lake Superior.
- o. *Pisidium Adamsi*, Prime. Maine.
- p. *Cyclas nitida*, C. B. Adams. Norway, Maine. (Ex auctore.)

2. *PISIDIUM ÆQUILATERALE*, Prime.

Smithson. Monogr.

- a. Maine.
- b. Massachusetts.
- c. Hudson river.

3. *PISIDIUM COMPRESSUM*, Prime.

Smithson. Monogr.

- a. Canada.
- b. Maine.
- c. Massachusetts.
- d. Western New York.
- e. Westchester Co., N. Y.
- f. New Jersey.
- g. Virginia.
- h. Stanislaus County, Ca.
- j. St. Ignace Island, Lake Superior.
- k. Arizona.
- l. *Cyclas altilis*, Anthony. Miami Canal, Ohio. (Ex auctore.)
- m. *Pisidium cicer*, Prime. Western New York.

4. *PISIDIUM VARIABLE*, Prime.

Smithson. Monogr.

- a. Maine.
- b. New Hampshire.

- c. Connecticut.
- d. Massachusetts.
- e. Saratoga Lake.
- f. Virginia.
- g. *Pisidium grande*, Whittemore, Cambridge, Mass. (Ex auctore.

5. PISIDIUM ABDITUM, Haldeman.

Smithson. Monogr.

- a. Lancaster County, Pa. (Ex auctore.)
- b. New Jersey.
- c. Quebec.
- d. Maine.
- e. New Hampshire.
- f. New Brunswick.
- g. Massachusetts.
- h. Rhode Island.
- j. Connecticut.
- k. Manhattan Island, N. Y.
- l. Staten Island, N. Y.
- m. Long Island, N. Y.
- n. Western New York.
- o. Westchester Co., N. Y.

- p. Michigan.
- q. Virginia.
- r. South Carolina.
- s. Georgia.
- t. Florida.
- u. Minnesota.
- v. St. Ignace Island, Lake Superior.
- w. *Cyclas minor*, C. B. Adams. Weybridge, Vt. (Ex auctore.)
- x. *Pisidium tenellum*, Gould. Lake Superior. (Ex auctore.)
- y. *Pisidium minus*, Stimpson. Cambridge, Mass. (Ex auctore.)
- z. *Pisidium Kurtzii*, Prime. Charleston, S. Ca.
- a1. *Pisidium zonatum*, Prime. Cambridge, Mass.
- b1. *Pisidium regulare*, Prime. Ohio.
- c1. *Pisidium notatum*, Prime. Washington Co., N. Y.
- d1. *Pisidium resartum* Ingalls. Washington County, N. Y. (Ex auctore.)
- e1. *Pisidium rubrum*, Lewis. Herdimer County, N. Y. (Ex auctore.)
- f1. *Pisidium plenum*, Lewis. Otsego County, N. Y. (Ex auctore.)
- g1. *Pisidium Nov.-Eboracense*, Prime. Western New York.
- h1. *Pisidium amplum*, Ingalls. Washington County, N. Y. (Ex auctore.)

6. **PISIDIUM FERRUGINEUM**, Prime.

Smithson. Monogr.

- a. Massachusetts.
- b. Western New York.

7. **PISIDIUM VENTRICOSUM**, Prime.

Smithson. Monogr.

- a. Massachusetts.
- b. Western New York.
- c. New Brunswick.
- d. *Pisidium rotundatum*, Prime. Hab.?

8. **PISIDIUM STEENBUCHII**, Morch.

Bull. Mus. Comp. Zool. Harvard V.

Greenland. (Ex auctore.)

9. **PISIDIUM OCCIDENTALE**, Newcomb.

Smithson. Monogr.

California. (Ex auctore.)

10. **PISIDIUM ULTRAMONTANUM**, Prime.

Smithson. Monogr.

Canoe Creek, Ca.

Central America.

11. PISIDIUM RETUSUM, Prime.

Proc. Zool. XXVIII.

Honduras.

West Indies.

12. PISIDIUM JAMAICENSE, Prime.

Smithson. Monogr.

Cyclas pygmea, C. B. Adams, Jamaica. (Ex auctore.)

13. PISIDIUM SIMILE, Prime.

Smithson. Monogr.

Guadeloupe.

14. PISIDIUM CONSANGUINEUM, Prime.

Smithson. Monogr.

Cuba.

a. *Pisidium Gundlachi*, Arango. Cuba. (Ex auctore.)

15. **PISIDIUM PUNCTIFERUM**, Guppy.

Ann. mag. nat. hist. 3d series XIX.

Trinidad. (Ex auctore.)

South America.16. **PISIDIUM TITICACENSE**, Prime.

Lake Titicaca, Peru. (Collected in 1876 by the Agassis expedition. Undescribed).

17. **PISIDIUM CHILENSE**, Deshayes.

Smithson. Monogr.

Valparaiso.

a. *Pisidium angulatum*, Prime. Coquimbo, Chile.

Europe.18. **PISIDIUM AMNICUM**, Jenyns.

Baudon Pisid. 1857.

a. Agen, France.

- b. Dept. of Calvados, France.
- c. Gers, “
- d. Savoy.
- e. Geneva.
- f. Lombardy.
- g. Cassel.
- h. Dublin.
- j. England.
- k. *Pisidium obliquum*, Pfeiffer. Germany. (Ex auctore.)
- l. *Pisidium inflatum*, Megerle. Como.
- m. *Pisidium Grateloupianum*, Normand. France. (Ex auctore.)
- n. *Pisidium sulcatum*, Parreys. Germany. (Ex auctore.)
- o. *Pisidium Burgundiacum*, Bilie. Dijon. (Ex auctore.)

19. *PISIDIUM CASERTANUM*, Bourguignat.

Baudon Pisid. 1857.

- a. Agen, France.
- b. Dept. of Calvados, France.
- c. Troyes, “
- d. Dept. of Creuse, “

- e. Dept. of Vosges, France.
- f. Gers, “
- g. Savoy.
- h. Canton of Vaud, Switzerland.
- j. Geneva.
- k. the Bachsteg, Switzerland.
- l. the Wengernalp, “
- m. Como.
- n. Genoa.
- o. Rome.
- p. Sicily.
- q. Dalmatia.
- r. Gratz.
- s. Portugal.
- t. Spain.
- u. County Kerry, Ireland.
- v. *Pisidium pulchellum*, Jenyns. Dept. of Oise, France.
- w. “ “ “ Dept. of Agen, France.
- x. “ “ “ Dept. of Creuse, France.
- y. “ “ “ Savoy.
- z. “ “ “ Geneva.
- ai. “ *australe*, Philippi. Dept. of Aube, France.
- bi. “ “ “ Sicily.

- ci. *Pisidium cinereum*, Alder. Dept. of Vosges, France.
 di. " " " Dept. of Aube, "
 ei. " " " Dept. of Oise, "
 fi. " *limosum*, Gassies. Agen, France. (Ex auctore.)
 gi. " *thermale*, Dupuy. Dept. of Creuse, France.
 (Ex auctore.)
 hi. " *sinuatum*, Bourguignat. Dept. of Oise, France.
 (Ex auctore.)
 ji. " *lenticulare*, Dupuy. Savoy, (Ex auctore.)
 ki. " " " Valenciennes. (Ex auctore.)
 li. " " " Dept. of Aisne, France.
 (Ex auctore.)
 mi. " " " Dept. of Oise, France.
 ni. " " " Dept. of Calvados, France.
 oi. " *globulare*, Gassies. Agen, France. (Ex auctore.)
 pi. " *planum*, Pfeiffer. Germany. (Ex auctore.)
 qi. " *Stabileii*, Schmidt. Canton of the Grisons,
 Switzerland. (Ex auctore.)
 ri. *Sphaerium Herminii*, Weld. Estrella Mountains, Spain.
 (Ex Cuming Collection.)

20. *PISIDIUM PUSILLUM*, Jenyns.

Baudon Pisid. 1857.

- a. France.
- b. *Pisidium fontinale*, Pfeiffer. France.
- c. " " " Dept. of Oise, France.
- d. " " " Savoy.
- e. " *roseum*, Scholtz. Silesia. (Ex auctore.)

21. *PISIDIUM OBTUSALE*, Pfeiffer.

Baudon Pisid. 1857.

- a. Dept. of Gers, France.
- b. Silesia.
- c. *Pisidium minimum*, Studer. Switzerland.

22. *PISIDIUM DUPLICATUM*, Pfeiffer.

Pfeiffer Syst. Anord. 1821.

Germany. (Ex auctore.)

23. *PISIDIUM NITIDUM*, Jenyns.

Baudon Pisid. 1857.

- a. Dept. of Oise, France.
- b. Agen, "
- c. *Pisidium incertum*, Normand. Valenciennes. (Ex auctore.)

24. PISIDIUM MILIUM, Held.

Martini & Chemnitz, 2d edition.

- a. Dept. of Oise, France.
- b. *Pisidium normandianum*, Dupuy. France.
- c. " *tetragonum*, Normand. Valenciennes. (Ex auctore.)
- d. " *Baudonianum*, de Cessac. Dept. of Creuse, France. (Ex auctore.)

25. PISIDIUM HENSLOWIANUM, Jenyns.

Baudon Pisid. 1857.

- a. Dept. of Oise, France.
- b. *Pisidium acutum*, Pfeiffer. Germany. (Ex auctore.)
- c. " *Jayanum*, Gassies. Agen, France. (Ex auctore.)
- e. " *pallidum*, " " " " " "
- f. " *Bonnafoxianum*, de Cessac. Dept. of Creuse, France. (Ex auctore.)

26. PISIDIUM CONICUM, Baudon.

Baudon Pisid. 1857.

- Dept. of Oise, France.
-

27. **PISIDIUM FERRÆNSE**, Morch.

Cat. Suenson 1857.

Farroe Islands. (Ex auctore.)

28. **PISIDIUM SEPTENTRIONALE**, Prime

Umea, Lapland. (Undescribed.)

29. **PISIDIUM NOV.-ZEALANDICUM**, Prime.

Ann. N. Y. Lyceum VIII.

New-Zealand.

30. **PISIDIUM CANARIENSE**, Shuttleworth.

Mittheil. naturf. Gesel. Bern 1852.

Canaries. (Ex auctore.)

31. **PISIDIUM BENSONI**, Prime.*Pisidium parvulum*, Benson.India. (Ex auctore.)

FOSSIL.

32. PISIDIUM ANTIQUUM, Braun.

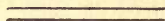
Germany. (Ex auctore.)

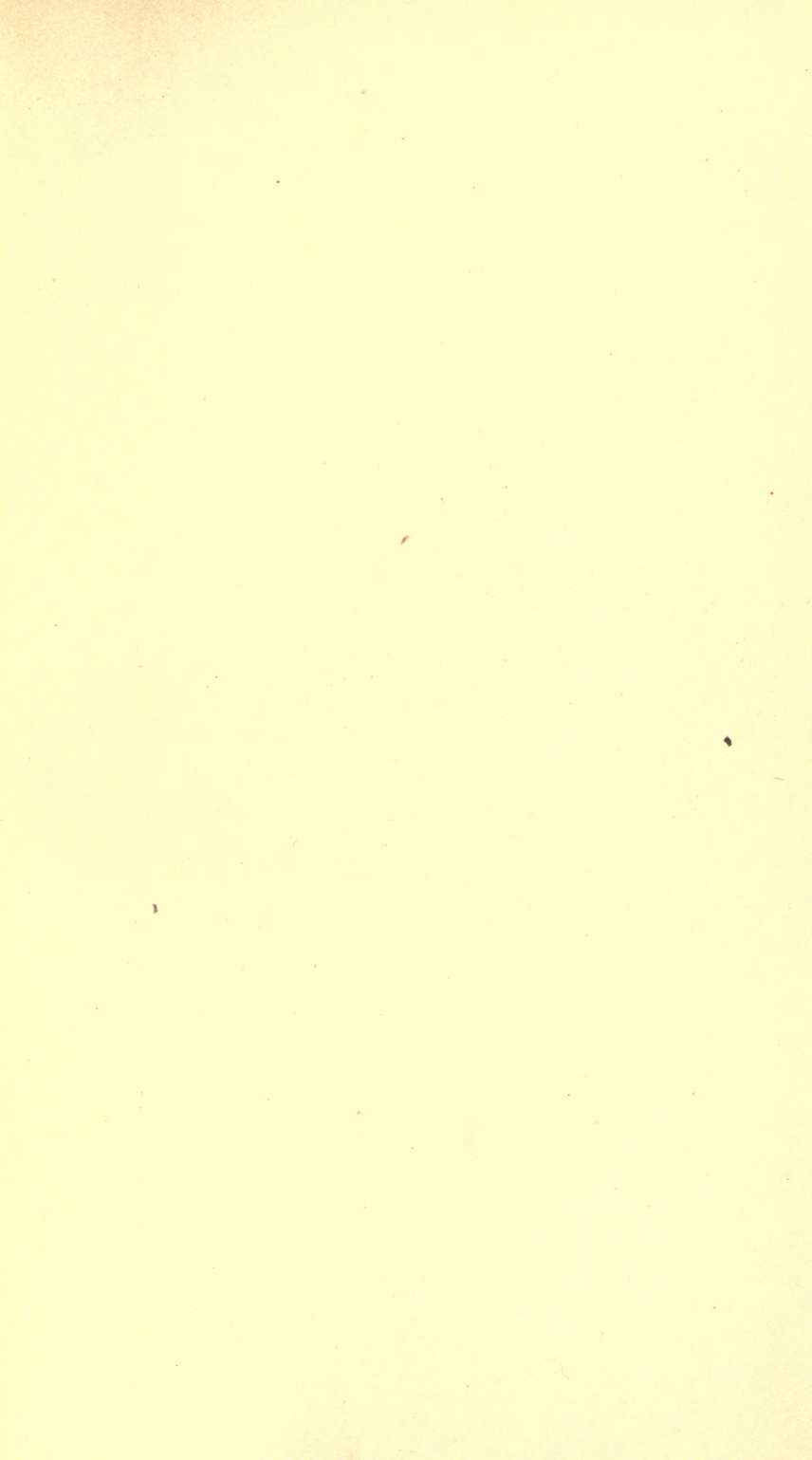
33. PISIDIUM CONTORTUM, Prime.

Smithson. Monogr.

Pittsfield, Mass.

a. St. John, New Brunswick.







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